CONSTRUCTION NEWS

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ALGOMA CENTRAL & HUDSON BAY.—When surveys are completed, bids will be asked for building an extension of 200 miles at an estimated cost of $3,000,000. There will be 64 bridges. W. C. Franz is Gen. Mgr., Sault Ste. Marie, Ont. Noted on April 22, 1909.

ALTUS, ROSWELL & EL PASO.—Company has established headquarters at Anadarko, Okla. Surveys are now under way. The line will run from Altus, Okla., on the Kansas City, Mexico & Orient, west to Hollis and eventually to Roswell, N. Mex., a total of 286 miles. Edward Kennedy is Pres. and H. Fielder, Ch. Engr., Altus, Okla. Noted on Feb. 4 and June 24, 1909.

BUCKHANNON & NORTHERN.—We are officially advised that B. M. Laughead, Morgantown, W. Va., has been appointed locating engineer of the Buckhannon & Northern R. R., with headquarters at Morgantown. The Buckhannon & Northern R. R. will extend from the Pennsylvania-West Virginia State Line, up the Monongahela River, to Rivesville, W. Va. Noted last week.

CHICAGO & NORTHWESTERN.—Contracts have been awarded for the construction of the cut-off and belt line around Milwaukee, Wis. They will involve expenditure of $10,000,000. The THOMAS MARSH CONSTRUCTION CO., Public Service Bldg., Milwaukee, got the $8,000,000 grading contract and the CLEARY & WHITE CONSTRUCTION CO., Railway Exchange, Milwaukee, got a $2,000,000 contract for cement work.

CHICAGO, MILWAUKEE & PUGET SOUND.—Contracts have been let to the LORIMER & GALLAGHER CO., 217 La Salle St., Chicago, and the J. H. FLICK CO., of Chicago, for filling in many wooden trestles with earth and rock, reducing grades, lessening curves and laying heavier rail on the line between Plummer, Idaho, and Seattle, Wash, it is stated.

COLEMAN, LLANO & SOUTHERN.—This company has filed charter in Texas. Company is securing right-of-way from Coleman, Tex., south to Brady, about 45 miles. Capital stock, $500,000; headquarters are at Coleman. The plans call for a line from Coleman south to San Antonio, about 175 miles. The directors include: H. N. Beakley, J. A. S. Miller, H. R. Starkweather, J. E. Roogostock and R. A. Lane, of Coleman.

COLORADO & CONCHO.—Company will let contract soon for building this railroad between Robert Lee and Colorado City, Tex. Later an extension will be built between Robert Lee and San Angelo, 30 miles. Noted on Dec. 16.

IOWA & SOUTHWESTERN.—Company probably will award contracts this spring for the line to be built from Clarinda, Iowa, southwest via College Springs to Blanchard, in Page County, 20 miles. W. S. Farquhar is Pres., College Springs, and J. E. Judd, Ch. Engr, Clarinda, Iowa. Noted on Jan. 6.

IOWA & SOUTHWESTERN.—We are officially advised that contracts probably will be let within the next 90 days for building this railway. It will be 18 miles long and will connect Clarinda and Blanchard, Iowa. Surveys are completed. Right-of-way has not been secured. W. S. Farquhar, College Springs, Iowa, is Pres. A. F. Galloway is Secy., and C. B. Judd is Ch. Engr., Clarinda. Noted on Jan. 6.

KANSAS NORTHWESTERN.—We are officially informed that W. R. Crompton, the contractor, Great Bend, Kan., has sublet the construction work to the ELECTRIC TRACTION CONSTRUCTION CO., Commerce Bldg., Kansas City, Mo., as noted last week. Surveys are partly made and right-of-way partly obtained. E. W. Moses is Pres., Great Bend. The railway will be 330 miles long and will connect Wichita, Kan., with Bunkleman, Nev.

LINK BELT RY.—Incorporated in California to construct a broad-gage railway in Placer County. Nominal capital stock, $1,000. Incorporators: L. T. Kitt, E. D. Kitt and W. S. Fox, of Auburn, Cal.

MEXICO.—A concession has been granted by the Mexican Government to John Henderson and P. Sandoval, both of Nogales, Sonora, for a railway line from Port Lobos, on the Gulf of California, through the town of Caborca, to Sasabe, on the international boundary line. No other railway may be constructed within a "zone of protection" 20 miles wide, the entire length of the line, and embracing Port Libertad, the only other available harbor in the adjacent territory; 20 miles of track must be completed by April 26, 1911. According to Alexander V. Dye, U. S. Consul at Nogales, "one of the concessionaires has assured me that construction work will be begun early in 1910. This railway will lead to the development of large bodies of low-grade ore deposits in the district of Altar, which have remained undeveloped owing to the lack of shipping facilities."

All concessions for building a railroad across northern Sonora and Chihuahua held by the Cananea Consolidated Copper Co., of Cananea, Sonora, have been bought outright by the Pearson Interests, headed by Frank S. Pearson, Mexico City, it is reported. Noted on Dec. 2.

MEXICO.—Miguel Cardenas, of Monclova, State of Coahuila, has been granted a concession to build a railroad from Monclova to Chihuahua, State of Chihuahua, a distance of 550 kilometers. Estimated cost, $25,000 per kilometer.

NORFOLK & WESTERN.—The directors of the Norfolk & Western Ry. Co. have authorized the construction of 13 miles of additional double track in West Virginia, and about 48 miles in Ohio. Authority has also been given for the building of a low-grade belt line around the city of Petersburg, Va., upon advantageous grade and reduced mileage. The president has been further authorized to make contracts for new equipment to the amount of about $3,700,000. C. S. Churchill is Ch. Engr., Roanoke, Va. Noted on Jan. 20.

QUANAH, ACME & PACIFIC.—This company plans to begin survey immediately from Paducah, Tex., to El Paso, Tex., going through New Mexico via Roswell, Acme and other points. C. E. Ensminger is Ch. Engr., Quanah, Tex.

SAN DIEGO, EL PASO & ST. LOUIS.—P. A. McCarthy, Ch. Engr., Houston, Tex., advises us that contracts will be let this spring for building this railroad from El Paso, Tex., via Hope and Artesia, N. Mex., through the Texas Panhandle, to Red River, Tex., about 500 miles. Surveys have been made for a distance of 200 miles and right-of-way secured for this section. Capital is partly obtained. A. Courchesne is Pres., El Paso, Tex. Noted on Dec. 23.

SOUTH CAROLINA.—A. O. Yearian, of Samaria, S. C., and J. D. Prothro, of Aiken, S. C., respectively chairman and secretary of a committee which is promoting a plan to build a railroad from Aiken to Columbia, 50 miles, have sufficient capital, it is reported, subscribed to build a section of eight miles from Steedman to Lybrand.

TRINITY VALLEY & NORTHERN.—Stockholders are reported to have authorized an issue of $150,000 of bonds. The company now has ten miles of line in operation from Dayton, Tex., on the Texas & New Orleans, to Fouts. An extension is to be built from Fouts to Rayburn, Tex., 15 miles. A. J. Wise is Ch. Engr., Houston.

UNION PACIFIC.—This company has let contracts to KILPATRICK BROS., Beatrice, Neb., for building a line from Denver into Fort Collins, Colo., 40 miles, at a cost of $1,500,000. A short-line cut-off will also be built from Denver to Fort Morgan, 74 miles, to cost between $3,000,000 and $4,000,000. The survey has been completed and construction work will begin at once. This cut-off will shorten the Denver-Chicago route by about 38 miles, thus putting the line on an equality, so far as distance, and mileage is concerned, with competing roads.

Engineers are now locating an extension of the Crow Creek branch, completed last year, and $1,000,000 will be spent in carrying it northeast toward Wyoming. This line is headed toward Grover, Colo.

UNION SPRINGS & NORTHERN.—JOHN W. WRIGHT, JR., of Union Springs, Ala., has the contract to build an extension of the Union Springs & Northern R. R. from Fort Davis to Milstead, Ala., 20 miles. Contract covers grading, tracklaying and bridging, and is to be completed in four months. W. M. Blount is Pres., Union Springs.

VERA CRUZ & ISTHMUS.—The following report on railway extensions in Mexico is from William W. Canada, U. S. Consul at Vera Cruz: "The Vera Cruz al Istmo Railway Co. is now constructing a 44-mile branch line from Rives, on the main line, to San Andres Tuxtla, crossing the San Juan River at Cuatotolapam. From Rives to the river the road will pass through a fine cattle-raising country, thence through a rich agricultural region celebrated for its excellent tobacco. San Andres Tuxtla is at the foothills of the San Martin Mountains. There are a number of mineral springs in this vicinity, for which the natives claim great medicinal properties. A 16-mile branch line is under construction from the main line at Brisbin, about five miles south of Los Naranjos, to Cerro Colorado on the Papaloapam River. This branch is to be extended to Cosamaloapam, 28 miles from the main line. Large forces of men are at work on both lines. It is expected to finish the line to the San Juan River by March, 1910, and the other branch about the same time." Noted on Dec. 2.

VIRGINIA & TRUCKEE.—We are officially informed that heavy snow storms have delayed the progress of the surveys for the proposed extension from Minden, via Wellington, to the Antelope Valley, Nev., noted on Jan. 6. Date for letting contracts is uncertain. W. H. Kirk is Ch. Engr., Carson City, Nev.

ELECTRIC RAILWAYS.

NORTH ADAMS, MASS.—An application is to be made for a street railway franchise for a line between this city and Williamstown, connecting to Troy. The new company will be known as the Taconic Street Railway Co.

BOLIVAR, N. Y.—C. M. Van Curen, of Bolivar, and Benjamin F. Patterson, of New York, recently applied to the Board of Trustees for a franchise for a street surface railway to be built on Wellsville St. and Boss St., this village, which line is to connect Bolivar with Wellsville. No opposition to granting the franchise is anticipated and it is expected that the board will award the privilege at once. Application for a franchise in Wellsville has been made. The Wellsville Construction Co., which plans to build this line, is composed of Messrs. Van Curen and Patterson, and Albert J. Matson, of Bolivar. The railway will be about 20 miles long. Right-of-way is practically secured. Estimated cost, $250,000.

RED CREEK, N. Y.—George Tater, of Wolcott, N. Y., is reported interested in plan to build an electric railway from Red Creek to Wolcott to connect at Wallington with the New York State Rys. System. Right-of-way is also being secured from Port Byron to Rew Creek; the railway will extend from Port Byron to Wallington via Plainville, Meridan, Cato, Red Creek, Wolcott, North Rose and Alton.

PORT NORRIS, N. J.—At a meeting held at this place on Jan. 28 plans were discussed for building an electric railway between West Millville and Bivalve, Cumberland County, N. J. James E. Mitchell and Harry O. Newcomb, of Millville are interested.

CHARLEROI, PA.—We are officially advised that the West Side Electric St. Ry. Co. has abandoned for the present the plan to build a 10-mile extension from Charleroi to Ellsworth. C. N. Bennett, 101 Phillips Ave., Pittsburg, is Ch. Engr.

PHOENIXVILLE, PA.—The Phoenixville, Valley Forge & Stafford Street Ry. Co. has increased its capital stock from $60,000 to $350,000, and it is stated that the company will issue bonds also to the amount of $600,000 for the purpose of building the railway, including the Bridgeport-Norristown extensions. An ordinance granting franchises will be asked for at the next Council meeting of the Boroughs of Phoenixville and Bridgeport. Thomas E. O'Connell, West Chester, is Pres. Noted fully on Dec. 30.

BLOOMSBURG, PA.—E. R. Sponsler, Pres. of the Columbia Power, Light & Rys. Co., Harrisburg, has announced the consumation of a merger under which this company and Meikleham & Dinsmore, Engrs., 25 Broad St., New York, will control all the electric railways between Berwick and Pottsville, as well as 20 electric light and four gas plants, according to the Philadelphia "Public Ledger." By the construction of 65 miles of electric railway the company will connect Scranton and Wilkes-Barre with Pottsville, where trolley connection with Philadelphia will be established. The railways absorbed in the new company are those of the Danville & Bloomsburg St. Ry. Co., the Columbia & Montour Electric Ry. Co., Northumberland Light, Heat & Rys. Co., the Shamokin & Edgewood St. Ry. Co., the Shamokin & Mount Carmel Electric Ry. Co., and the Schuylkill Ry. Co. Twenty miles of railway will be constructed to connect the Columbia & Montour System with the Wyoming Valley lines, and the construction of nine miles of road between Danville and Sunbury will complete the link as far as Sunbury. The Shamokin & Edgewood lines will be extended 20 miles to Sunbury and from Shamokin the line will run to Mount Carmel, Centralia, Ashland and thence to Mahanoy City via Girardville and Shenandoah. A link of 15 miles remains to be built from Mahanoy City to St. Clair, where there is connection with the Eastern Pennsylvania Rys. Mr. Sponsler said that the entire project had been financed, and that the construction operations would begin not later than June. It is expected that the purchase and improving of the properties will mean the expenditure of about $7,000,000. The entire line from Berwick to Danville, 23 miles in length, will be rebuilt and over private right-of-way, with the Danville and Bloomsburg line relocated. The roadbed will be brought up to a standard to make possible the operation of express trains at a 40-mile-an-hour speed, the purpose of the company being to operate an express train service. Power for operating not only the railway system, but for electric lighting as well, will be procured from the Harwood Electric Co.

REISTERSTOWN, MD.—A new electric railway line to run from Reisterstown, Baltimore County, to Hanover, Pa., is projected, according to a bill introduced in the State Senate by Senator Bidison on Jan. 28. The measure incorporates the Baltimore & Pennsylvania Ry. Co., with James H. Wilson, Jacob H. Sherman, Jacob A. Frederick, Newton S. Watts, Jacob Pierce Bruns, Frank L. Hancock, Daniel F. Reisenwehr and William T. Deitrich named as the incorporators. The capital stock is placed at $600,000, with the privelege of increasing it to any amount that may be deemed necessary.

RICHMOND, VA.—Wm. C. Whitner, Engr.-in-Charge, Richmond & Chesapeake Bay Ry. Co., Fredericksburg, Va., informs us that surveys are being made for this railway from Ashland, Va., to Washington, D. C., via Fredericksburg, Va., about 100 miles. Noted on Jan. 13.

WHITEVILLE, N. C.—J. R. Williamson, P. J. Hufford and W. T. Carrington, of Vineland, N. C., have organized the Whiteville Light & Power Co. to build a street railway and power plant in Whiteville. Right-of-way has been secured and it is expected to begin construction by April 1.

MONTICELLO, IND.—The Indiana Northwestern Traction Co. will receive bids in the spring for the construction of its line from Monticello to Rensselaer, Ind. G. A. H. Shideler is Pres., Monticello. Noted on Nov. 11, 1909.

INDIANAPOLIS, IND.—The Town Council of Danville, Ind., has granted the Capital Circuit Traction Co., Indianapolis, an extension of time on its franchise to 1913. As noted on Oct. 14, 1909, "We are officially advised that the Capital Circuit Traction Co. will let construction contracts as soon as necessary money is secured. Right-of-way has practically been obtained and surveys are made. As noted on March 11, this company, with headquarters at 1019 Law Bldg., Indianapolis, plans to build an electric railway connecting Greenfield, Fortville, Noblesville, Sheridan, Lebanon, Advance, Jamestown, North Salem, Danville, Clayton, Hall, Mertansville, Trafalgar, Franklin, Marietta, Shelbyville and Fountaintown. J. N. Crabb, Law Bldg., Indianapolis, is Pres.; J. W. Trotter, Danville, Ind., Vice-Pres.; C. E. Worth, Secy. and Treas.; J. A. Shafer, 3710 North Illinois St., Indianapolis, Ch. Engr. The line will be about 170 miles long."

MOUNT CARMEL, ILL.—At a meeting held on Jan. 26 by the directors of the Evansville, Mt. Carmel & Olney Traction Co., at Grayville, the contract for building the road was awarded to the BURNS CONSTRUCTION CO., Isabella Bldg., Chicago. By the terms of the contract the contractors are to begin construction June 1, 1910. The work will be started from Evansville. The construction company is to receive bonds of the traction company for its work.

CARTHAGE, ILL.—The Retail Merchants' Association of Carthage is considering a proposition to build an electric line from Carthage to Keokuk and at a recent meeting held listened to the plans as presented by Hon. A. W. O'Harra and Judge D. E. Mack.

MINNEAPOLIS, MINN.—L. N. Loomis, Pres. of the Twin City & Lake Superior Ry. Co., Minneapolis, advises us that this line will be 140 miles long, extending from Minneapolis to St. Paul, and to Duluth and Superior. Surveys are made and right-of-way mostly secured. Capital is partly obtained. Fifty miles of the railway are graded. Some contracts have been let, some completed, and much more will be let. J. H. Thomas is Ch. Engr., Railway Bldg., Minneapolis. Noted on March 4, 1909.

ST. LOUIS, MO.—James D. Houseman, Gen. Mgr. of the St. Louis County Belt R. R. C., 414 Roe Bldg., St. Louis, advises us that the statement regarding this railroad, which was sent to us unsigned and apparently official, and which appeared in the issue of Jan. 20, was absolutely incorrect, with the exception of the use of his name. Mr. Houseman writes that the line has not been surveyed. "The distance will be about 30 miles. Mr. Nagel, Mr. Whittaker and Mr. McCully are not connected with the company directly or indirectly in any way, shape or form."

UVALDE, TEX.—We are officially informed that the Uvalde & Leona Valley Interurban Ry. Co. has made surveys for its line, between Uvalde and Batesville, 22 miles. Right-of-way and capital for building the railway are partly secured. Date for letting contracts not determined upon. Chas. Petersen is Pres., San Antonio; M. M. McFarland, Vice-Pres. and Gen. Mgr., at Uvalde. Noted on Jan. 6.

SAN BENITO, TEX.—S. A. Robertson, of San Benito, is interested in a project to build a system of electric lines out of San Benito, Tex., aggregating about 30 miles, connecting that place with several points in the lower Rio Grande valley. Preliminary surveys for the main line from San Benito south to the Rio Grande, about ten miles, have been made. Bonuses for about $100,000 have been pledged to aid the project, it is said.

FORT WORTH, TEX.—The Board of Trade has named a committee as follows: Paul Waples, Chn.; T. B. Yarbrough, R. D. Gage, George T. Reynolds, Marion Sansom, Louis J. Wortham, F. M. Rogers, W. G. Burton, W. D. Davis, John P. King, John F. Shelton, B. B. Paddock, S. D. Lary, W. C. Stripling and Ben J. Tillar, to raise $125,000 as a bonus for the company which proposes to construct an interurban line between Fort Worth and Mineral Wells. The company was organized by J. O. Watkins of Little Rock, Ark., and Paul Hurley and J. S. Hansford, of Fort Worth.

SAN ANTONIO, TEX.—The Metropolitan Steam & Elec. Ry. Co. has completed surveys for a 30-mile line between San Antonio and New Braunfels. As noted on Dec. 9, 1909, this company was incorporated in Delaware to build electric railways connecting San Antonio, New Braunsfels, Seguin, Lockhart, Gonzales and Austin, 80 miles. John G. Marmion, of San Antonio, Tex., is Pres.; E. L. Squire, of Wilmington, Del., Vice-Pres.; M. Kaufman, Secy. and Treas., Yorktown, Tex. Charles H. Russell is Engr., San Antonio. Ultimately the line may be extended from Austin to Houston, Tex.

BROWNSVILLE, TEX.—B. C. Stegman, of Brownsville, is reported to be organizing a street railway company with $80,000 capital to build a line between Brownsville and West Brownsville.

OKLAHOMA CITY, OKLA.—The Oklahoma City & Fort Smith Traction Co., of Oklahoma City, has been chartered in Oklahoma, to build an electric line from Oklahoma City to Fort Smith, Ark. Capital stock, $100,000. The estimated length of the line is 200 miles, and estimated cost $4,000,000. It will pass through the counties of Oklahoma, Pottawatomie, Seminole, Okfuskee, Okmulgee, McIntosh, Muskogee, Haskell, Ledore to Fort Smith. The directors are: V. S. Bath, P. M. Mowry, C. L. Wood, F. M. Wood, A. M. Gustin and John Wild, all of Oklahoma City.

GRAND JUNCTION, COLO.—We are officially advised that the Grand Junction & Grand River Valley Ry. Co. will construct the extension from Grand Junction to Fruita, 17 miles, with its own forces. E. L. Mosley is Ch. Engr., Grand Junction. Noted on Jan. 6.

EUREKA, CAL.—We are officially informed that the Humboldt & Eastern R. R. Co., which will build a line easterly from Eureka to Sacramento, 175 miles, has completed surveys. W. S. Clarke, Eureka, is Pres.; E. E. Skinner is Secy., 318 Fifth St., Eureka. Noted on Dec. 30.

BOISE, IDAHO.—D. O. Stevenson has surveyed the proposed new line for the Boise & Interurban Ry. Co., between Boise and Nampa, 23 miles. H. E. Dalton is Gen. Mgr., Boise.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

WALTHAM, MASS.—The city has awarded contract to the EDISON ELECTRIC ILLUMINATING CO., 39 Boylston St., Boston, for lighting the streets and public buildings for a term of ten years from Sept. 1, as follows: For furnishing 506 tungsten lamps of 40 c.-p. at $18.33 each per year, and 164 arc lamps at $84.08 per lamp per year for all-night and every-night service. L. L. Elden is Ch. Elecn.

WINCHENDON, MASS.—Surveys and estimates are being made by the Winchendon Electric Light & Power Co. for the construction of a large dam near the Hurley estate, to increase the output of its plant. William M. Whitney is Pres.

GREENFIELD, MASS.—The Greenfield Electric Light & Power Co. is planning the erection of a new building in the spring and will install a 750-KW. General Electric horizontal turbine. George W. Lawrence is Supt.

HARTFORD, CONN.—The Hartford City Gas Light Co. has voted to increase its capital stock from $750,000 to $1,500,000 by the issue of 30,000 shares of preferred stock at $25 per share. This action is taken as one of the preliminaries to the dissolution of the Hartford Gas Securities Co., a holding company, by the purchase of the shares of the holding company at $25 per share.

COHOES, N. Y.—Contract has been awarded by the Fuld & Hatch Knitting Co. to the ALLIS-CHALMERS CO., Milwaukee, Wis., for a 600-KW., 3,600 r.p.m., 480-volt, 60-cycle, 3-phase condensing steam turbo-generator set.

*POUGHKEEPSIE, N. Y.—Bids are asked by the State Commission in Lunacy, Albany, until 3 p. m., Feb. 16, for the power house equipment, conduits, and piping at Hudson River State Hospital here. T. E. McGarr is Secy. For details see advertisement.

WHITESVILLE, N. Y.—Franchise has been granted to the Whitesville Light & Power Co. to construct and operate an electrict light plant here. J. R. Williamson is interested.

WILSON, N. Y.—On Jan. 15 the city voted to light the village by electricity.

HAILESBORO, N. Y.—The Oswegatchie Light & Power Co., S. G. Hunter, Supt. & Ch. Elecn., Gouveneur, N. Y., has awarded contract to C. D. HODGE & CO., of Watertown, N. Y., for the development of a 1,400-HP. water power on the Oswegatchie River at Hailesboro, 1½ miles from Gouverneur.

PASSAIC, N. J.—The Passaic Cotton Mills has awarded contract to the ALLIS-CHALMERS CO. for an 18 × 28 × 36 heavy-duty, cross-compound, non-condensing engine, which will be direct-connected to a 250-kva., 240-volt, 3-phase, 60-cycle, 120 r.p.m., revolving field alternator and a belt flywheel, designed to transmit about 200 HP. to a line shaft, the normal rating of the engine being about 500 HP. A 17-KW. belted exciter is also included.

TRENTON, N. J.—The Atlantic City Gas & Water Co. and the Consumers Gas & Fuel Co. filed articles of consolidation here on Jan. 22, the name of the new corporation to be the Atlantic City Gas Co. Capital stock, $1,000,000. All the stock of the consolidated corporation is to be issued to the holders of stock of Consumers Gas & Fuel Co. on the basis of one share, par value $100, for four shares of the stock of the latter company. The new concern assumes the bonded indebtedness and other obligations of the old concerns amounting to $1,800,000. The officers of the new corporation are: Pres., C. H. Geist, Land Title Bldg., Philadelphia; Vice-Pres., Joseph A. Slatery, Philadelphia; Secy., C. W. Fox, Narberth, Pa.; Treas., I. C. Elston, Jr., Philadelphia.

PITTSBURG, PA.—The County Commissioners have awarded contract for electrical supplies for the Soldiers' Memorial Hall to the IRON CITY ENGINEERING CO., Frick Annex, Pittsburg, at $44,832.

BEAVER FALLS, PA.—Plans are being made by the Pittsburg & Lake Erie R. R. Co. for the construction of an electric light and power plant in Beaver Falls. Work will begin next spring. The plant will furnish electricity for arc and incandescent lamps for the passenger station, freight depots and yards from Beaver Falls to the Ohio River, and to light the large bridge now being erected across the Ohio River at Beaver.

EMPORIUM, PA.—Plans are being considered by the Borough Council for enlarging the municipal electric light plant during the summer, to increase the commercial lighting service, equipment to include a 150-HP. gas engine, one 150-KW., 3-phase, 60-cycle generator, transformers and meters. Robert Green is Mgr.

PHILADELPHIA, PA.—The United Light & Power Co. has filed a notice with the Secretary of State of an increase in capital stock from $5,000 to $100,000 and an issue of $400,000 in bonds. W. T. Meaney is Treas.

EVANS CITY, PA.—The Evans City Light, Heat & Power Co., lately incorporated, is planning to install its plant and erect transmission lines in Evans City. Work will begin at once. R. A. Todd, A. C. Frey and S. A. Roelofs are interested.

PALMYRA, PA.—Daniel Weaver, of North Lebanon Township will erect a large electric plant east of here.

PHILADELPHIA, PA.—We are officially advised that Dodge & Day, Engrs., Drexel Block, Philadelphia, have, by commission of the United States Light & Heating Co., submitted plans for the new plant. The new buildings, besides being suitable for housing in one establishment the industries now located at different points, will provide for considerable additional increase in capacity at the outset and for future extensions. Detail plans and specifications are now being prepared and construction will be begun as soon as they are completed. The new plant is expected to be occupied during 1910.

INDIAN HEAD, MD.—Bids will be received until Feb. 8 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing and installing power plant equipment here.

ALBEMARLE, N. C.—Bids will be received by I. B. Miller, Mayor, until Feb. 15 for the installation of an electric light plant according to plans and specifications on file at his office. J. M. Bandy, of Greensboro, N. C., is Engr.

TYRON, N. C.—Preparations are being made for the construction of a hydro-electric power plant on the Pacolet River, near here, for which water rights have been secured. The plant will furnish electricity for lamps and motors in Tyron and surrounding towns. W. C. Blackmon, of Tyron, is Engr.

BRANCHVILLE, S. C.—Sabin & Morrison, of Branchville, are in the market for complete equipment for a small electric plant with sufficent output to supply about 50 lamps, including small engine and all apparatus for operation, direct-connected machinery preferred.

SUMTER, S. C.—The Sumter Telephone Mfg. Co. is planning to install an electric power plant to furnish electricity to operate its factory.

GREENVILLE, S. C.—The Southern Power Co. has bought land in the suburbs on which will be erected a plant for electric power. Estimated cost, about $1,000,000. This plant will be used as an emergency plant, it is understood.

VALDOSTA, GA.—The Consolidated Ice & Power Co. may ask for bids for the construction of its proposed electric plant about Feb. 15. Estimated cost, about $100,000. G. K. Kiser is Pres.

SAVANNAH, GA.—The Savannah Hydro-Electric Co. is making arrangements, it is stated, to construct a large hydro-electric power plant on the Cannochee River, near here. Estimated cost, $500,000. The officers of the company are: S. K. Platshek, Pres.; D. G. Ziegler, Vice-Pres. and Gen. Mgr., and G. H. Miller, Secy. and Treas. The Savannah Hydro-Electric Co. is successor to D. G. Zeigler & Co.

RUSSELLVILLE, ALA.—Preparations are being made for the installation of an electric light plant here. George C. Thornton, Pres. Russellville Mfg. Development Co., is interested.

CLARKSVILLE, TENN.—Plans are being considered for increasing the capacity of the plant of the Clarksville Electric Light & Power Co. The installation of a turbo-generator set is being considered.

JOHNSON CITY, TENN.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 5, for supplying light fixtures for the U. S. public building here.

LOUISVILLE, KY.—Contract for electric wiring for the new Avery plant, under construction in South Louisville, has been awarded to F. A. CLEGG & CO., of Louisville.

ASHLAND, OHIO.—The Ashland Gas & Electric Light Co. is contemplating the construction of a new plant in the spring. S. N. Blake is Mgr.

RISING SUN, OHIO.—Plans are being prepared for the erection of transmission lines for the distribution of electricity here. Estimated cost, about $4,000. Estimates are asked on wire, tungsten lamps, meters, transformers and switches. E. E. White and T. J. Martin are interested.

CLEVELAND, OHIO.—Plans are being prepared by the Cleveland Electric Illuminating Co. for the construction of a large power plant at the foot of East 70th St. in the spring. Application has been made to the War Department for authority to build a bulkhead and intake channel in the lake at this point to supply the proposed plant with water for boilers and steam condensers. The plant will be installed on the one-unit plan and will have an output of 150,000 HP. It will be operated in connection with the present plant. Robert Lindsay is Gen. Supt.

TOLEDO, OHIO.—The Contract for installing the heating apparatus and pump plant in the new government building has been awarded to FITZPATRICK & HOEPFNER, of Columbus, at $30,890.

JEFFERSONVILLE, IND.—The new owners of the Jeffersonville Water and Light plant announce that bids will be asked for extensive improvement and equipment for the plant. James P. Goodrich is Pres.

WARSAW, IND.—The Warsaw Water and Light Co. will soon ask for bids for the improvement of its plant and for the installation of new machinery in order to carry out a new contract recently made with the city.

BROOK, IND. — Preparations are being made by Gragg Bros., owners of the local electric light plant, for increasing its generating equipment and transmission system by installing an additional 30-HP. motor at Foresman, Ind., four miles distant.

POCAHONTAS, IOWA.—The citizens have voted to construct a municipal electric light plant, at a cost not to exceed $14,000. George Schnieders is Town Clk.

MADISON, KAN.—Plans are being considered by the Madison Light & Ice Mfg. Co. for changing its system from direct to alternating-current, including the installation of a new boiler, engine, generator and transformers. F. L. Krueger and B. F. Yonker are the owners.

NEWTON, KAN.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 9, for supplying electric fixtures for the U. S. public building here.

HURON, S. DAK.—The Huron Light & Power Co. will install in the spring a new arc lighting system, to provide for 50 lamps, and is now ready to place contracts. Coler Campbell is Secy. and Mgr.

PRESCOTT, ARK.—A 30-year franchise was granted the Arkansas Natural Gas Co. by the City Council on Jan. 18. Sixty days' time is allowed the company to accept and two years within which to build the line and have gas flowing. A maximum rate of 50 cts. per thousand cubic feet, with 10% off for prompt payments, is fixed by the ordinance. Schools, public buildings and charitable institutions are granted a rate 25% below the regular rate. The provision is made by the franchise that Prescott shall not pay a rate higher than that paid by other towns along the line. A manufacturers' rate, lower than that to the ordinary consumer is made, but the company retains the privilege of discontinuing service to manufacturing concerns should the supply become weak. A 16-in. pipe will be laid from Vivian, La., in the Caddo field, to Little Rock, 160 miles. Order for the pipe has already been given.

RALSTON, OKLA.—Bids will be received by the city for the construction of an electric light plant and water-works system until Feb. 7. Plans and specifications are on file at the office of the City Clerk. M. A. Earl & Co., of Muskogee, Okla., are Engrs.

PORTLAND, ORE.—The Portland Railway, Light & Power Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for a 3,750-KW. water-wheel type, 11,000-volt, 60-cycle, 3-phase, 360 r.p.m. alternator. A 50-KW., 120-volt exciter will be direct connected to an extension of the alternator shaft.

SALEM, ORE.—Bids are asked at the Executive Chambers, Salem, until 2 p. m., Feb. 10, for a central heating plant, including power house, pipe lines, concrete smokestack, etc., for the Oregon State Insane Asylum, in accordance with drawings and specifications prepared by Frank E. Baker and P. A. Williams, Engrs. Plans may also be seen at office of Secretary of the Chamber of Commerce, Portland, Ore.

SACRAMENTO, CAL.—Preparations are being made by the Sacramento Gas, Electric & Ry. Co. here for the construction of an underground conduit system to place wires underground in the district lying between Fifth and Seventh, I and L Sts. The work will be in charge of E. C. Holburton, Chief Engr. Pacific Gas & Electric Co.

ESCONDIDO, CAL.—The Escondido Utilities Co., at present erecting an electric plant here, is planning to extend its transmission lines to the San Marcos and Richland to Twin Oaks, toward the Moosa Canyon country, to the east end of the Escondido Valley and to San Pasqual Valley. It is also proposed to supply electrical service to residents along the line. The plans include an electric plant, gas plant, creamery and ice and cold storage plant. Estimated cost, about $100,000. Equipment has been purchased.

SAN PEDRO, CAL.—The Southern California Edison Co. has made arrangement to add new machinery and make improvements to its gas plant. Estimated cost, $15,000.

TEMPLE, ARIZ.—The city will issue bonds for $25,000 for the erection of a municipal lighting plant.

BLIND RIVER, ONT.—Preparations are being made by the Blind River Light, Heat & Power Co. for improvements and additions to its system during 1910, to include the construction of a new concrete power house and installation of an additional 300-HP. turbine. Thomas H. Pindell is Supt.

LONDON, ONT.—New bids will be asked for electrical equipment at the power station, the former specifications, it is reported, having contained too many alternatives. The apparatus required includes transformers, motor-generators set, voltage regulators, switchboards, lighting protectors, instruments, arc and incandescent street lighting equipment. E. I. Sifton is Ch. Elec. Engr.

PORT ARTHUR, ONT.—A committee of the City Council has been appointed to open negotiations with companies and offer inducement to establish a gas plant here.

TONALA (Chiapas), MEX.—David E. Thompson, Pres. Pan-American R. R. Co., has been granted a concession to utilize the water power of the Tonala River at a point near here to generate electricity. The shops and general office of the Pan-American Railroad will be removed here. The proposed power plant will furnish electricity for lamps in this city.

PACHUCA (Hidalgo), MEX.—The State Government of Hidalgo has granted a concession to the Compania Empressa Irrigador de la Vaga de Metzitlan of Pachuca for the erection of a hydro-electric power plant and the use of the waters of Metzitlan Lake for generating electricity and for irrigation purposes. The company proposes to transmit electricity to the mining districts of El Chico and Real del Monte.

BRIDGES.

READING, PA.—Bids are asked until 10 a. m., Feb. 14, by A. L. Rhoads, County Controller, for furnishing lumber for Leiss's bridge over the Schuylkill River, about three miles north of here.

BALTIMORE, MD.—We are officially advised that the 120-ft. bridge to be erected across Jones' Falls, at Pratt St., will be a rib-arch concrete structure, one span, 93 ft., with concrete foundation, and will cost $120,000. Bids will be asked as soon as necessary property has been acquired by the city. O. F. Lackey is Harbor Engr.

PARKERSBURG, W. VA.—Pa[illegible]sburg Bridge Co. will spend about $45[illegible] for the construction of a bridge a[illegible]s the Ohio River from Parkersburg t[illegible]elpre, Ohio. The structure will be of s[illegible] pension type, 300 ft. long, 24 ft. [illegible]sus- double tracks for trolley line, side[illegible]way, pedestrains, floor of wooden pavi[illegible]s for and will be of sufficient stability[illegible]locks 120,000-lb. traction car. Plans h[illegible]arry been approved by the Secretary of Wa[illegible] U. S. Engineers.

OXFORD, N. C.—Bids are aske[illegible] the Granville County Commissioner[illegible] until March 7 for raising an 85-ft. steel[illegible]n 16 ft. higher and for constructing [illegible]steel approaches to span named, each ap[illegible]h to be 75 ft. long. James Osborn [illegible]unty Engr.

WELDON, N. C.—The Corporat[illegible] Commission, Raleigh, was notified on [illegible]. 21 that the Seaboard Air Line Ry. and [illegible]At- lantic Coast Line R. R. will spend $[illegible],000 for the construction of a new do[illegible] deck bridge across the Roanoke River a[illegible]eldon and on the Union passenger stat[illegible] here. W. L. Seddon is Ch. Engr. Brid[illegible] Sea- board Air Line Ry., Portsmouth V[illegible]

SAVANNAH, GA.—Bids are asked [illegible]y the Chatham County Commissioners, G. [illegible]euben Butler, Clk., until March 14 for con[illegible]ting steel highway bridge, including fou[illegible]ations over Herb River, on La Roche Ave[illegible]

JACKSONVILLE, FLA.—Duval [illegible]ounty Commissioners have awarded con[illegible]ct to the CONVERSE BRIDGE CO., Chat[illegible]nooga, Tenn., at $13,030 for constructing a bridge across Six-Mile Creek, to PHILLIPS & TURNBULL, of Jacksonville, at $7,[illegible]55 for Little Pottsburg Creek bridge, and to CANTON BRIDGE CO., Ohio, at $3,971 for Trout Creek bridge. Gail L. Barnard is County Engr.

PALATKA, FLA.—Bids are asked by the Trustees for Putnam County Bonds until Feb. 12 for the construction of a bridge across Etoniat Creek, at Nanana Mills. R. F. Ensey is County Engr.

WEST POINT, MISS.—Bids are asked by the Board of County Supervisors, West Point, L. J. Howard, Clk., until Feb. 8 for furnishing material and constructing 800-ft. steel trestle on West Point and Muldron Road, in Tibbee Bottom.

MONEY, MISS.—Plans and specifications are asked by the LeFlore County Board of Supervisors, Greenwood, until Feb. 7 for constructing two iron bridges, one across Tallahatchie River here, and another across the Tazor River, at Shell Bluff.

NASHVILLE, TENN.—Contract has been awarded to the JOLIET BRIDGE & IRON WORKS, Joliet, Ill., for the construction of the Cassalot bridge, at $3,333.

CHATTANOOGA, TENN.—Plans are being prepared by E. E. Betts, Engr. Chickamauga Park Commn., for the construction of the bridge across Chattanooga Creek on the Hooker Road. The bridge will be of steel, single span, of the regulation government type.

TROY, OHIO.—Bids will be received until Feb. 5 by A. E. Sinks, County Audr., for laying creodone block floors on various bridges.

CINCINNATI, OHIO.—F. J. BRACKETT has been awarded contract, at $3,187, for the construction of a bridge over Bloody Run at Beech St., near Spring Grove Ave., Millcreek Township. Bids were opened on Jan. 14.

EVANSVILLE, IND.—The Vanderburg Bridge Co. has incorporated, with capital stock of $15,000, to build a combined highway electric and steam railroad bridge over the Ohio River, near this city.

MOLINE, ILL.—The construction of a railroad bridge over the Mississippi River at 23d St., connecting Moline and Battendorf, is under consideration. Estimated cost, $1,000,000. E. H. Van Patten, of Davenport, is interested.

STREATOR, ILL.—Ralph Modjeski, Jackson Bldg., Chicago, has completed plans for the proposed bridge, to be constructed in Streator. Estimated cost, about $40,000.

MONTEZUMA, IOWA.—Bids will be received until Feb. 23 by the Board of County Supervisors for the construction of cement bridges and culverts in this county for the year 1910. J. W. Rose is County Audr.

SIOUX CITY, IOWA.—The lowest bid received for the bridge over Perry Creek at W. Sixth St., has been submitted by Lewis & Leeder, at $5,860.

TOPEKA, KAN.—Bids will be received by C. B. Burge, City Clk., until March 7 for constructing the extension at the south end of the Melan Bridge across the Kansas River on Kansas Ave.

WESTMORELAND, KAN.—The County proposes to construct a bridge across Dempsey Creek. Estimated cost, about $10,000. H. G. Huckstadt is County Clk.

PARKIN, ARK.—St. Louis, Iron Mountain & Southern Ry., M. L. Byers, Ch. Engr., St. Louis, Mo., contemplates constructing a bridge over the St. Francis River near here, one across the White River at Augusta, and one across the Black River at Paroquet, Ark.

BRADY, TEX.—McCulloch County has voted $32,000 of bonds for the construction of three bridges, one across San Saba River at Voca, estimated cost, $12,000; one across Colorado River at Waldrip, estimated cost, $18,000 to $20,000; one across Colorado at Stacy; estimated cost, $10,000. The bridge at Waldrip will be built jointly by McCulloch and Coleman Counties, each bearing one-half expense.

SAN ANTONIO, TEX.—The Bexar County Commissioners have awarded contract at $23,350 to H. B. THOMPSON & CO., Birmingham, Ala., for constructing reinforced concrete bridge across the Medina River on Pleasanton Road. Thomas E. Ramsay is County Audr.

VANCOUVER, WASH.—Bids are asked until 10 a. m., March 1, by M. B. Kies, County Auditor, for the construction of a 200-ft. [illegible] span and two concrete piers, and also for the construction of 1,100 ft. of trestle work over the Washougal River, between the towns of Camas and Washougal.

*SNOHOMISH, WASH.—Bids are asked by the Board of County Commissioners of Snohomish County until 10 a. m., Feb. 28, for the construction of a steel swing span over the Snohomish River here. John F. Birney County Engr. Everett, Wash.

DOWNIEVILLE, CAL.—GEORGE GRANT, of Quincy, Cal., has been awarded contract for the erection of the new steel bridge across Downieville Creek, between Plumas and Sierra Counties.

MERCED, CAL.—Contract has been awarded to the WESTERN BRIDGE & CONSTRUCTION CO., at $14,263, by the Board of Supervisors, for the construction of the proposed Stevenson bridge across the Merced River in Road District No. 4.

FLORENCE, ARIZ.—The following bids were opened on Jan. 15 by the Territorial Board of Control, Phoenix. J. B. Giraud, Territorial Engr., for constructing a reinforced concrete bridge, modified girder type, 700 ft. long and 20 ft. wide, over the Gila River, near here: Midland Bridge Co., Kansas City, Mo., $54,000; Raymond Concrete Pile Co., New York, $62,300; alternate bid, $48,320; Missouri Valley Bridge & Iron Works, Wichita, Kan., $49,900; Western Bridge Co., Sacramento, Cal., $47,963; R. R. Coleman, Phoenix, Ariz., $35,000; Engineer's estimate $38,980.

MESA, ARIZ.—The Reclamation Service has authorized the construction of three concrete bridges to span the consolidated canal near here.

WINNIPEG, MAN.—Contract for piers for joint railway bridge across the Assiniboine River, at Winnipeg, was awarded on Jan. 24 to THOMAS KELLEY & SONS. The bridge will carry the trains of the Canadian Northern and Grand Trunk Pacific. It will be 454 ft. long. Estimated cost, $50,000.

Bids are asked by the Board of Control until March 7 for the construction of an overhead bridge at Brant and Brown Sts. Estimated cost, $229,646. M. Peterson Secy.

OUTLOOK, SASK.—Contract was let on Jan. 24 by the Canadian Pacific Ry. to J. D. McARTHUR CO. for bridge at Outlook, over the Saskatchewan River. The bridge will be over 3,000 ft. long, 146 ft. high, and contain 106 piers.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

WOONSOCKET, R. I.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Woonsoket, R. I., to HORTON & HEMINWAY, 603 Atlantic Ave., Boston, Mass., at $59,-062. Time, Feb. 1, 1911.

HARTFORD, CONN.—The question regarding the proposed municipal building seems to have been settled by the proposition of J. Pierpont Morgan to present to the city about 50,000 sq. ft. of land at Main and Arch Sts, conditional upon the city's acquiring other property in the immediate neighborhood. This the Court of Common Council has voted to do, and the electors of the city will be asked to make an appropriation of about $450,000 at the spring election. The Committee having the matter in charge consists of Rev. Francis Goodwin, John D. Browne, Thos. W. Russell, Alderman, and William B. Bassett and A. Storrs Campbell, Councilmen.

KINGS PARK, N. Y.—The bids received by the State Lunacy Commission on Jan. 26, for the work of constructing four cottages at the Kings Park State Hospital, Kings Park, N. Y., including heating, lighting and electric work, were: Joseph DiBenedetto, 423 East 115th St., New York, $320,222; Morris Kantrowitz, 20½ Plain St., Albany, N. Y., $337,337; Cramp & Co., 36 East 23d St., New York, $304,300; John C. Tierney, Hoboken, N. J., $372,300; Rufus H. Brown, Brooklyn, N. Y., $351,800; Wills & Marvin Co., 1170 Broadway, New York, $338,477; Peter Keeler Building Co., 468 Orange St., Albany, N. Y., $321,750; Luke A. Burke & Sons Co., 25 West 42d St., New York, $323,850; Bliss & Griffiths, 225 Fifth Ave., New York, $282,000; Charles A. Peckworth, 415 Hudson St., New York, $297,226; A. Pasquini, 1123 Broadway, New York, $294,168; Dean & Havens, Olean, N. Y., $341,390; Herman Probst, 10 West 29th St., New York, $300,750; O'Connell & Hanna, 271 West 125th St., New York, $304,160; Ross-Bush Co., Marbridge Bldg., New York, $309,-964; F. T. Nesbit & Co., 116 Nassau St., New York, $303,559; Richard E. Heninghan, 1 Madison Ave., New York, $339,900; Daniel J. Ryan, Brooklyn, N. Y., $299,908; P. J. Brennan & Son, $387,000. T. E. McGarr is Secy. of Comn.

NEW YORK, N. Y.—We are officially advised that the Remmos Construction Co., 545A Macon St., Brooklyn, will erect three 4-family brick and limestone tenements at the southeast corner of Sixth Ave. and 49th St., to cost $100,000; equipment, $125,000. The buildings will be 100 × 90 ft. Contracts will be let immediately. E. Sommers is Arch., 545A Macon St.

Plans have been filed for an 8-story apartment house of brick, with trimmings of limestone and terra cotta, with a frontage of 75 ft. and a depth of 85.11 ft., and to contain 33 suites of apartments, to be erected from designs by Schwartz & Gross, Archs., 347 Fifth Ave., for Isaac Polstein, on 100th St., west of West End Ave. It is to cost $175,000.

George F. Pelham, 507 Fifth Ave., Arch., has filed plans for a 12-story loft building, with ground floor stores, 42.10 × 88.1 ft., to be built for the Criterion Construction Co., as owner, at a cost of $175,000, at 114 and 116 West 26th St.

Plans have been filed by William Baumgarten & Co. for making over the old supper room on the third floor of Sherry's Hotel, at Fifth Ave. and 44th St., into a suite of private apartments for Mr. Sherry, and for making over the old-fashioned 5-story tenement house and store at 31 Division St. into a loft building for J. Gordon, the change of occupancy being made from designs by Bernard Parker, Arch.

New plans have been for the proposed enlargement of the Unique Theater, at 134 and 136 East 14th St., the change projected including the building of a stage and dressing room at a cost of $50,000 for S. Schinasi, as owner. S. S. Sugar is Arch.

NEW YORK, N. Y.—Neville & Bagge, Archs., 217 West 125th St., have filed plans for a 14-story apartment house, which will be constructed at once on the northeast corner of Riverside Drive and 113th St. The cost will be about $750,000, the owners and builders being the Emsworth Construction Co., E. M. Krulewitch, Pres.

Plans have been filed for a 7-story storage warehouse, to be erected from designs by Alfred L. Kehoe, 1 Beekman St., at 479 Greenwich St., at a cost of $40,000.

Plans have been filed for an 11-story loft and store building, 40 ft. front, on an irregularly shaped plot, at 8 and 10 West 13th St., for the Lordi & De Respiris Construction Co., from drawings by F. C. Zobel, Arch., 114 East 28th St., to cost $175,-000.

BUFFALO, N. Y.—M. H. Mark, Henry J. Brock and Eugene L. Falk, 611 White Bldg., have purchased the Academy of Music property at Main and Seneca Sts., extending through to Washington St., and will erect an 8 or 10-story office and theater building, for which plans are being prepared on the site. The present theatre on the Washington St. front will be remodeled and utilized.

W. H. Cummins, Joseph Dunphy and John J. Hagen, 456 Ellicott Sq. Bldg., have organized a cold storage company and will erect a cold storage plant at the Elk St. market, six stories in height. It will have 300,000 sq. ft. of floor space and will cost $250,000.

JAMESTOWN, N. Y.—Mount Tabor Lodge, I. O. O. F., is having plans prepared for an Odd Fellows' temple and business block to be erected at the corner of Fourth and Main Sts.

WOODHAVEN (L. I.), N. Y.—The Little Sisters of the Poor, St. Peter's Hospital, Brooklyn, will begin building operations as soon as the weather will permit, for a new hospital at Vendeveer and Woodhaven Aves., Fulton and Elm Sts., to cost about $500,000. The building will be of brick with stone trim, four stories high and fireproof. It will be known as St. Anthony's General Hospital.

*FORT WOOD (New York post-office), N. Y.—Bids are asked by William W. Bessell, Constr. Q. M., Fort Wood, until 10.30 a. m., Feb. 26, for the construction of a cable storehouse at Ford Wood, N. Y. H.

WARD'S ISLAND (New York post-office), N. Y.—Bids are asked by the State Lunacy Commission, Albany, N. Y., until 3 p. m., Feb. 16, for the construction of four cottages, including heating, plumbing and electric work, at the Manhattan State Hospital, Ward's Island, N. Y. F. B. Ware is State Arch., the Capitol, Albany.

SCHENECTADY, N. Y.—We are officially advised that plans are being prepared by L. Rodman Nichols, Arch., 208 South Center St., Schenectady, N. Y., for the construction of a 3-story store building, laundry and boiler house for E. A. Gasner, of Schenectady, N. Y. The building will be 46 x 150 ft. Bids will be asked about Feb. 15. The work includes high-pressure boiler, steam heating, galvanized iron cornices, slag roof, pressed brick front, concrete floors, laundry machinery, metal ceilings, electric and gas lighting, structural steel, ornamental iron, Hill's dryers, dumb-waiters and plumbing. Total cost, $42,000. Noted on Jan. 20.

NEWARK, N. J.—All but one of the 45 bids received by the Board of Education Committee on Buildings, Grounds and Supplies, at its meeting on Jan. 31, for work on the proposed Commercial and Manual Training High School, at New, High and Summit Sts., were within the $600,000 appropriation made by the Board. The E. M. Waldron Co., 84 South Sixth St., Newark, was $10,000 above that figure. All of the proposals were referred to a tabulation committee, which will decide upon the lowest bidder. This is the second time bids have been submitted for this school. The last time was in 1907, when the appropriation was $400,000, and the lowest bid received was $733,000. Nathan Myers, Arch., Newark, who drew up those plans, is suing the city for rejecting them.

The bids received on Jan. 31 for the entire work follow:

Bids for the Entire Work—P. J. Carlin Construction Co., 16 East 23d St., $567,495; H. C. Stowe Construction Co., except mechanical work, $469,700; Cramp & Co., Commonwealth Bldg., Philadelphia, and 36 East 23d St., New York, without plumbing and heating, $455,200; Cramp & Co., $566,870; James G. Doak & Co., 1420 Chestnut St., Philadelphia, $578,865; John Gill & Sons, 12 West 31st St., New York, $590,000; J. F. Walsh Construction Co., except roofing, $567,903; V. J. Hedden Sons Co., 1 Madison Ave., New York, $588,675; Thomas Reilly, $555,441; Charles H. Peckworth, 415 Hudson St., New York, $568,440; Fred Kilgus, 13 South Sixth St., Newark, $567,293; William H. Fissell, 1133 Broadway, except plumbing, heating, ventilation and electrical work, $451,000; Hedden Construction Co., 1 Madison Ave., New York, $589,174; E. M. Waldron, $610,349; Glen Engineering Construction Co., 156 Fifth Ave., New York, except steel and iron work, $373,723; Oscawanna Building Co., 200 Fifth Ave, New York, $577,000. E. W. Guilbert is Arch., Bd. of Education.

PHILADELPHIA, PA.—The Roydhouse-Arey Co., Fidelity Bldg., the William Steele & Sons Co., 1600 Arch St., the G. A. Fuller Co., Flatiron Bldg., New York, J. G. Doak & Co., 1420 Chestnut St., John R. Wiggins & Co. and the Thompson-Starrett Co. 49 Wall St., New York, are estimating on the Hotel Fairmount to be built on the site of the Boothby restaurant, 1229 to 35 Chestnut St., for the Colonial Realty Co., from plans by Watson & Huckel, 1211 Walnut St. The building will have 18 stories with a basement, 84 x 145 ft., and will cost about $1,250,000.

Ballinger & Perrott, 1211 Arch St., Philadelphia, are preparing preliminary plans of a brick dormitory to cost over $100,000, and to be located on Ridge Ave., near Grant Ave., Northside. It will be built for the Western Theological Seminary of the Presbyterian Church.

The POMEROY CONSTRUCTION CO., 1312 Arch St., has been awarded the contract to erect a fireproof storage warehouse at 19th St. and Allegheny Ave. for the Electric Storage Battery Co.

DOVER, DEL.—We are officially advised that the State Capitol Commission on Jan. 27 awarded the contract for the state capitol administration building and state house alterations to JOHN A. CARTER & CO., Heed Bldg., Philadelphia, on a bid of $55,-000. E. L. Tilton, 32 Broadway, New York, is Arch.

BALTIMORE, MD.—It was announced on Jan. 24 that the work on the proposed Hotel Emerson, to be built on the Baltimore and Ohio lot recently purchased by Dr. Isaac E. Emerson, will start within the next 30 days, according to the Baltimore "Sun." The hotel will be 15 stories high, with a garden roof. It will be as nearly fireproof as possible. The first three stories will be of granite or marble, while the remaining twelve will be of white semi-glazed bricks and white terra cotta. The exterior window frames will be of metal and the corridors will be of marble or tile. The flooring of all the rooms will be of tiles, cement or other fire-resisting material. The site is at Calvert and Baltimore Sts. J. E. Sperry, Calvert Bldg., Baltimore, is Arch. W. H. PARKER, Clay St., has the contract. Cost, $1,000,000.

WASHINGTON, D. C.—Frank H. Hitchcock, Postmaster-General, has approved the tentative plans for the proposed city post-office which will be erected west of the new Union Station in Washington. The present plans contemplate a building to cover half the large site already obtained. The cost will be about $3,500,000. James Knox Taylor is Superv. Arch., Treasury Dept., Washington.

The commission named to select a site for the National Armory in Washington, has reported in favor of a site on the Mall, near the National Museum, between the Capitol and the Washington Monument. The commission is composed of Robert Shaw Oliver, Asst. Secy. of War; Col. Spencer S. Cosby, U. S. A.; Brig. Gen. Harries, commanding the National Guard of the District of Columbia, and Major Elliott Wood. Wayne McVeagh, Secy. of the Treasury, is an ex-officio member. Tracy, Swartwout & Litchfield, Archs., 244 Fifth Ave., New York, have been commissioned to draw the plans for the armory. The structure will be about 500 ft. long and 400 ft. wide. The architecture of the armory will harmonize with that of the other buildings surrounding it, which include besides the National Museum, the Department of Agriculture Building.

DANVILLE, VA.—Bids are asked until 3 p. m., March 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office and court-house at Danville.

CHARLESTON, W. VA.—Frank Lewis, Columbus representative of the McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, has been awarded the contract for the structural steel for a 12-story office building at Charleston. The general contract for the building was secured by the MOORE CONSTRUCTION CO., of Charleston.

GREENVILLE, S. C.—The Standard Warehouse & Trust Co. will receive bids about July 1 for a 3-story warehouse, 125 x 125 ft., to cost $40,000. No architect has been selected. J. D. Bridges is Pres.

ATLANTA, GA.—The proposed Mutual Realty Co.'s hotel building will be of fireproof construction with reinforced concrete frame, of cage construction, incased with brick and ornamental cement. It will have stone trimmings, tile covered roof garden, ten stories, and will be 45 x 60 ft. Cost, $65,000. A. Francis Walker, 1331 Candler Bldg., Atlanta, is Arch. Construction will be by day's work.

ROME, GA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 18, for extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring), the U. S. post-office at Rome, Ga.

TAMPA, FLA.—The Seaboard Air Line, the Atlantic Coast Line and the Tampa Northern Railroad have agreed to build a union station at Tampa, the cost to be not less than $150,000, the "Manufacturers' Record" states. W. L. Seddon is Ch. Engr. of the Seaboard Air Line at Portsmouth, Va.; E. B. Pleasants is Ch. Engr. of the Atlantic Coast Line at Wilmington, N. C., and A. C. Olney is Ch. Engr. of the Tampa Northern at Tampa, Fla.

BRISTOL, TENN.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office extension at Bristol, Tenn., to D. J. PHIPPS, Newport News, Va. Time, Feb. 1, 1911. A complete list of bids was given on Jan. 20.

*FRANKFORT, KY.—Bids are asked until 3 p. m., March 14, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the extension, remodeling, etc., including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system), of the U. S. post-office and court-house at Frankfort, Ky.

AKRON, OHIO.—George B. Post & Sons, Archs., Schofield Bldg., Cleveland, are receiving revised bids for a 7-story fireproof bank building for the Second National Bank.

LIMA, OHIO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of an extension to the post-office at Lima, Ohio, to M. P. WELLS, Witherspoon Bldg., Philadelphia, at $55,737. Time, March 1, 1911.

COLUMBUS, OHIO.—The Directors of the Ohio National Bank, of Columbus, has decided to erect a building, to be used for banking only, at Town and High Sts., for which plans are now being prepared.

Plans have been completed for two new school buildings to be erected in the spring by the Board of Education of Columbus. One is to be erected on Heyl Ave. and the other on West Broad St. The estimated cost is $90,000 each. Bids will be invited soon.

J. M. Marriott has taken a 99-year lease on the southeast corner of Long and Pearl Sts. and will erect a business block, to be 62½ × 187½ ft.

Bids will be invited for the construction of a county Tuberculosis Hospital for Franklin County, after the revised plans which have been approved by the County Commissioners. The Board of Commissioners adopted a resolution providing for the additional cost of fireproof construction.

COSHOCTON, OHIO.—Plans are being prepared by Howard & Merriam, Capitol Trust Bldg., Columbus, Ohio, for an 8-room school building at Coshocton, Ohio.

DAYTON, OHIO.—The Dayton, Lebanon & Cincinnati Railroad Co., Lebanon, Ohio, will let contracts soon for the construction of passenger stations in this city and in East Oakwood.

CINCINNATI, OHIO.—Bids are asked by the Clerk of the Board of Education until noon, Feb. 14, to complete the new school building on the Douglass Public School lot, located on the southwest corner of Chapel St. and Alms Pl., Walnut Hills, in the city of Cincinnati. Garber & Woodward, Andrews Bldg., Cincinnati, are Archs.

The Board of Education has approved plans for a new Winton Place School. Charles W. Handman, Business Mgr., is preparing specifications for the work, and expects to be able to advertise for bids at once. The structure will be on the site of the present building, facing Hand Ave. The present building, consisting of six rooms, will be remodeled so as to form the left wing. The building will contain 16 regular class rooms, besides manual training and domestic science rooms, a gymnasium and an auditorium. It will be heated by a steam plant. The front will be constructed of pressed brick and terra cotta. The estimated cost of the building is $110,000, and of equipping it with a heating and lighting system, $17,500. Samuel Hannaford & Sons are Archs., Hulbert Block.

SEYMOUR, IND.—Mrs. Mary Schenck has ordered plans for the erection of a hospital, a gift to the city. Bids will be asked for as soon as plans are completed.

INDIANAPOLIS, IND.—Trustees of the Epileptic Village contemplate building three new cottages in the spring. Bids will be received at the Governor's Office, State House.

Louis G. Deschler has ordered plans for the erection of an apartment house on corner Illinois and Walnut Sts. Estimated cost, $75,000. Bids will be in order soon.

Joseph A. Rink, 30 North Illinois St., will receive bids as soon as plans are completed for remodeling and enlarging the old Y. M. C. A. building on North Illinois St., into a business block. Two additional stories will be built and a new iron front put in.

Plans are being made for W. H. Block, for the erection of an 8-story business block on North Illinois St. on the site of the Windsor Block. The building will be of brick, stone and steel, 76 x 126 ft. Bids will be asked for in February or March.

RICHMOND, IND.—The directors of the Second National Bank have ordered plans, on which bids will be asked, for the construction of a 4-story bank and business building at Eighth and Main Sts. Estimated cost, $100,000.

CRAWFORDSVILLE, IND.—The School Board announces that it will present plans in a few weeks on which bids will be asked for the erection of a high school building.

LA FAYETTE, IND.—A high school building to cost $250,000 is projected for this city. The School Board has voted to ask for bids as soon as the plans made are revised. Daniel W. Sims is Chn.

CLAY CITY, IND.—Bids are asked by the School Board of Clay City until Feb. 11 for the construction of a brick high school building.

CHICAGO, ILL.—Sears, Roebuck & Co. will add 300,000 sq. ft. to the main merchandise building at a cost of $400,000. When completed, the building will contain 2,000,000 sq. ft. of floor space.

The Bethany Bible School (the Dunkards Theological School and Church Brethren) is to improve, for school and church purposes, the entire block bounded by West Van Buren and West Congress Sts. and Trumbull and St. Louis Aves. One of the several structures which are to comprise the colony has been established, another is to be started immediately and by the time the entire block is improved, close to $200,000 will have been spent. The ground space which has been acquired measures 250 x 250 ft. The city council has sanctioned an ordinance by which the alley running north and south in the block is to be vacated, this being permitted that the church organization might carry out its building plans. A. C. Wieand is Pres. of the school.

LA CROSSE, WIS.—It is intended to construct a $75,000 armory and auditorium by Companies B and M jointly. The site on which the abandoned Second District school building stands is proposed and the city will be asked to donate it.

WINONA, MINN.—C. H. Johnston, 715 Manhattan Bldg., St. Paul, Minn., is preparing plans for a 3-story pressed brick and cut stone ladies' dormitory to be built at the State Normal School at Winona. It will be fireproof, 42 x 165 ft. Charles Halvorson, St. Paul, is Chn. of the State Bd. of Control. Appropriation, $75,000.

STILLWATER, MINN.—The State Board of Control, Charles Halvorson, Chn., St. Paul, has extended the time for the opening of bids for the construction of the new state prison at Stillwater, from Feb. 7 to Feb. 23. The plans were prepared by C. H. Johnston, Arch., Manhattan Bldg., St. Paul. The prison will include power plant, guard walls, warehouses and administration building. Total cost, $2,000,000.

ST. PAUL, MINN.—Buechner & Orth, Archts., Manhattan Bldg., have awarded the contract for the superstructure of the 8-story manufacturing building for the Manhattan Investment Co., to J. H. NICKEL, 514 Manhattan Bldg., city. Cost, $75,000.

DULUTH, MINN.—Bids are asked until 3 p. m., March 10, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the painting and decorating of the U. S. post-office, court-house and custom-house at Duluth.

BEATRICE, NEB.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of an extension to the post-office at Beatrice, to W. S. CAMPBELL, Lincoln, Neb., at $41,725. Time, March 1, 1911.

*FREMONT, NEB.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 22, for the extension, remodelling, etc. (including plumbing, gas piping, heating apparatus, electric wiring and conduits), of the U. S. post office, at Fremont.

WATERTOWN, S. DAK.—The Minneapolis & St. Louis R. R. Co. has appropriated $165,000 to be spent in improving its property here. The principal feature of the work will be the erection of a new passenger station, which will be used jointly by the St. Louis and Rock Island roads. A round-house with 20 stalls will also be built, and storage tracks northwest of the city capable of caring for $3,000 freight cars will be laid out. Work on the station will begin as soon as the plans have been approved by the Board of Directors.

PIERRE, S. DAK.—The Methodist Congregation of this city has completed arrangements for the construction of a church in this city at a cost of about $60,000.

BUTTE, MONT.—Bids are asked until 2 p. m., March 30, by the Board of County Commissioners of Silver Bow County, for the erection of a county court house at Butte, Mont. Link & Haire, State Savings Bank Bldg., Butte, are Archs. J. H. Cronin is Chm. of Comrs.; M. Kerr Beadle is County Clk.

DALLAS, TEX.—The Dallas lodge of the Order of Maccabees has decided to build a temple to cost $50,000. Property for a site is now being sought on Main or Commerce Sts., east of Ervay St.

GALLUP, N. MEX.—It is stated that the Atchison, Topeka & Santa Fe Ry. Co. will erect a station here, to cost $50,000.

PUYALLUP, WASH.—JAMES H. OWEN, Douglas Bldg., Los Angeles, Cal., has the contract to construct several buildings at the Puyallup Indian School, State of Washington. Cost, $68,790.

PORTLAND, ORE.—Doyle & Patterson, Archs., Worcester Bldg., are preparing the plans for a 3-story brick building to be built above Oswego for the Sister of the Holy Names for use as a provincial house, to cost $100,000. They are also preparing plans for a Neighborhood House, to be built in South Portland at a cost of $35,000.

SACRAMENTO, CAL.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 24, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of an extension, remodeling, etc., to the U. S. post-office and court-house at Sacramento.

LOS ANGELES, CAL.—The ALTA PLANING MILL CO. has been awarded contract for erecting a 7-story theater and office building of reinforced concrete and steel for William Garland on Broadway. Morgan & Walls, 232 North Main St., are Archs. Cost, $74,715.

It is reported that the local Knights of Pythias have decided to erect a $100,000 clubhouse. Train & Williams, 254 South Broadway, are Archs.

RIVERSIDE, CAL.—Bids are asked by the Board of Supervisors until Feb. 20 for the construction of a county detention home on the hospital grounds at Arlington. S. L. Pillar, Riverside, is Arch. The building will have one story, cement exterior, on metal lath and the main building will be 34 x 68 ft., with two wings, each 24 x 48 ft.

*FORT DOUGLAS, UTAH.—Bids are asked until 10 a. m., March 1, by Kenneth P. Williams, Constr. Q. M., for the construction of one double barrack, with plumbing, heating, electric wiring and fixtures, complete at Fort Douglas, Utah.

MONTREAL, QUE.—It is reported that the Canadian Northern Ry. Co. will construct an uptown station adjoining the Canadian Pacific Ry. Co.'s Windsor St. depot.

WATER-SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BRANDON, VT.—Brandon Fire District No. 1 has voted to extend the present water system. Estimated cost, $8,000.

*NEW YORK, N. Y.—The Board of Water Supply on Jan. 25 rejected all bids opened on Jan. 18 for Contract 41, for furnishing and installing 20 5 x 15-ft. sluice-gates, 20 operating mechanisms, eight 66-in. stop-disk frames, four 66-in. stop-disks and three sets of drive-shafting, for various structures along the line of the Catskill aqueduct, at Mount Vernon, Westchester County, and Brown's Station, Ulster County. New bids are asked until Feb. 15. J. Waldo Smith is Ch. Engr.

SCHENECTADY, N. Y.—Bids are asked by the Board of Contract and Supply until 10.30 a. m., Feb. 9, for the following supplies for the Bureau of Water: C-i. pipe and specials, special castings, fire hydrants, gate valves and boxes, brass service supplies and curb boxes. Harry F. Miller is Secy.

LONG ISLAND CITY (L. I.), N. Y.—Contracts were awarded on Jan. 24 by the Water Department of Queens Borough to SWEENY & GRAY, of 85 Sixth Ave., Long Island City, for driving ten wells at the Whitestone pumping station in the Third Ward. Contract provides that these wells must produce an average daily output of 2,000,000 gallons.

*ELIZABETH, N. J.—Bids will be received at the office of the Elizabethtown Water Co., 68 Broad St., Elizabeth, until 4 p. m., Feb. 23, for laying about 36,000 ft. of 36-in. c. i. water main. Specifications, plans and maps of location may be examined at the office of the company, 68 Broad St., Elizabeth.

PITTSBURG, PA.—The Council on Jan. 17 passed ordinance approving the proposed bond issue of $1,200,000 for water extensions. N. S. Sprague is City Engr.

RICHMOND, VA.—The Committee on Water has approved the recommendations of E. E. Davis, Supt. Water Dept., which include the extension of feed mains for additional fire protection and a new through main from the new reservoir. Estimated cost, about $133,791.

WEST CHARLESTON (Charleston post-office), W. VA.—The West Charleston Water Co., Charleston, W. Va., has been organized to construct and maintain water-works in West Charleston. Capital stock, $10,000. The incorporators are: W. B. Shober, Albert Lory, P. Burdett and others, all of Charleston.

WILMINGTON, N. C.—Bids were opened on Jan. 12 by the Water and Sewerage Commission, Charles W. Worth, Chn, for improvements to the water-works, consisting of the construction complete of a brick power and filter house, construction of machinery foundations, rearrangement of machinery, building of a radial brick stack, extensions to the filter plant, building of a reinforced concrete sedimentation basin, and a concrete storage reservoir. Contract has been awarded to JOHN W. DANFORTH CO., 70 Ellicott Square, Buffalo, N. Y., and Washington, D. C., at about $60,000. Hazelhurst & Anderson, of Atlanta, Ga., and Wilmington, N. C., are Engrs.

BOAZ, ALA.—The city is considering the construction of water-works. R. E. Boroughs is interested.

MONTGOMERY, ALA.—The City Council has authorized Gaston Hunter, Mayor, to purchase a site for $15,250 on which to construct the proposed reservoir and install electrically operated water pump.

The City Engineer has completed estimates for improvements to the water-works system. Estimated cost, about $35,000.

PLAQUEMINE, LA.—Bids were opened on Jan. 15 by the town for the construction of a new water-works system, consisting of two 80-HP. boilers and a 50,000-gallon steel tower and tank, the tower to be 90 ft. high. Contract has been awarded to T. W. McDONNELL, representing Casey & Hedges' Boiler Works, of Chattanooga, Tenn.

SANDUSKY, OHIO.—The Council has appropriated $7,000 for laying about one-half mile of 12-in. and one-quarter mile of 6-in. water main.

ELYRIA, OHIO.—Bids are asked until noon, Feb. 9, by the Board of Control for supplies for the Water-works Department. Rose Moriarty is Clk.

DETROIT, MICH.—Bids will be received until Feb. 8 by the Board Water Commissioners, Benjamin F. Guiney, Secy., for approximately 4,339 tons of 6 to 42-in. c.-i. pipe, 100 tons of 4-in., 250 tons 6-in., 150 tons of 8-in., 100 tons of 10-in., 50 tons of 12-in., and 5 tons of 16-in. water gate valves and 100 6-in. test boxes.

FORT WAYNE (Detroit Post-office), MICH.—Bids will be received by D. W. Kilburn, Constr. Q. M., U. S. A., until Feb. 17 for construction of an extension to water mains, etc., at this post.

SALEM, ILL.—The city will install a municipal water-works system this spring, including an impounding reservoir with a motor-driven pump. C. E. Hull is Mayor.

ROCK ISLAND, ILL.—The PITTSBURG MFG. CO., 28th St., Pittsburg, has been awarded contract at $16,000, for the construction of the new 6,000,000-gallon filter plant.

MOLINE, ILL.—E. R. HARDING, Racine, Wis., has been awarded contract, at $25,800, for laying water mains, and at $27,150 for the construction of sewers.

DODGEVILLE, WIS.—Bids were opened on Jan. 11 by the city for the construction of a steel tank. Contract has been awarded to the KENNICOTT WATER SOFTENER CO., of Chicago Heights, Ill., at about $2,051.

MILFORD, IOWA.—Bids are asked until Feb. 28 by the city for the construction of water-works. Estimated cost, $11,00. Charles P. Chase is Engr., Clinton.

DELMAR, IOWA.—The city proposes to extend the water-works system. C. D. Goodjohn is City Clk.

MINNEAPOLIS, MINN.—Bids were received as follows on Jan. 28 by the City Council for water-works material: Valves: (a) 150 6-in., (b) 12 8-in., (c) 18 12-in.: Rensselaer Mfg. Co., 98 Jackson Boulevard, Chicago, Ill., (a) $11, (b) $17, (c) $31.50; South Park Fdry & Mach. Co., St. Paul, Minn., (a) $13.75, (b) $19.50, (c) $39; Roe-Stephen Mfg. Co., Detroit, Mich., (a) $11.50, (b) $17.50, (c) $32.50; Chapman Valve Co., Indian Orchard, Mass., (a) $11.90, (b) $16.85, (c) $31.50; J. B. Clow & Sons, 350 Franklin St., Chicago, Ill., (a) $11.95, (b) $18.60, (c) $34.95; Coffin Valve Co., Neponset, Mass., (a) $12.75, (b) $17.25, (c) $33.25; Darling Pump & Mfg. Co., Williamsport, Pa., (a) $11.20 (standard), $12.25 (heavy), (b) $18.30, (c) $35. 175 D. S. Mathews hydrants with frost covers: R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $42.75 each; South Park Foundry & Machine Co., St. Paul, Minn., $43.50. One steel water tower and tank: Des Moines Bridge & Iron Co., Des Moines, Iowa, $8,850; Minneapolis Steel & Machinery Co., Minneapolis, $8,487; Chicago Bridge & Iron Works, 105th and Throop Sts., Chicago, Ill., $6,350. Andrew Rinker is City Engr.

FORT ROBINSON, NEB.—Bids are asked until 11 a. m., Feb. 19, by Capt. Malvern Hill Barnum, Constructing Q. M., U. S. A., Fort Robinson, for furnishing all necessary labor and material for the addition to and repairing pump house, new boilers, new pump, etc., at Fort Robinson.

HEBRON, NEB.—Bids are asked until Feb. 18, readvertisement, by O. P. Hess, City Clk., for the construction of improvements, extension and enlargement of the city water-works system. C. H. Meeker, McCook, Neb., is Engr.

BEATRICE, NEB.—THE W. K. PALMER CO., Dwight Bldg., Kansas City, Mo., has been awarded contract by the City Council for the construction of water-works here.

TWODOT, MONT.—Lillis & Hatch, 302 Stapleton Block, Billings, Mont., are making preliminary plans for an irrigation system to cover about 20,000 acres of land north of here.

KALISPELL, MONT.—The Bitter Root Mountain Water Co. will construct water systems at Polsen, Big Fork and Kalispell. Work will not be let by contract, but will be done by the company. Howard P. Lingo, 404 Sixth Ave., East Kalispell, is Engr.

HAMBURG, ARK.—The city will install a water-works system. Dr. W. L. Blanks is interested.

DALLAS, TEX.—The date for receiving bids for constructing the foundation for the pumping station, building the dam, spillway and other appurtenances at the White Rocks Water-Works Reservoir, has been postponed from Feb. 16 to Feb. 28.

SAN ANGELO, TEX.—The San Angelo Water Co. has increased its capital stock from $150,000 to $225,000 and plans improvements to the water system.

PARIS TEX.—The city will spend $20,000 for water-works, including the extension of c. i. mains and hydrants. J. W. Crook is Engr.

SAN BENITO, TEX.—The San Benito Land & Water Co., Alba Heywood, Pres., has awarded contract at $25,000 to FAIRBANKS-MORSE CO., Wabash Ave. and Eldredge Pl., Chicago, Ill., for the installation of a combination city water plant and electric light and power plant, 6-in. mains, standpipe 100 ft. high, 40,000 gallons capacity, pump, etc.

MERKEL, TEX.—Bids will be received by City Council until Feb. 21 for furnishing material and constructing water-works. Fountain-Shaw Engineering Co., 328 Chronicle Bldg., Houston, Tex., are Engrs.

RALSTON, OKLA.—See item under Light and Power Plants.

COLORADO SPRINGS, COLO.—Bids will be received until Feb. 21 by the Costilla Estates Development Co., 56 Bank Bldg., Colorado Springs for the following: Sanchez dam, about 500,000 cu. yds. earthwork; Sanchez dike, about 250,000 cu. yds. earth work; Culebra-Sanchez canal, about 250,000 cu. yds. earthwork, together with necessary controlling works, and about 15,000 cu. yds. of rock excavation. O. V. P. Stout, of Lincoln, Neb., is Engr.

CORTEZ, COLO.—Bids are asked until noon, Feb. 26, by Charles W. Comstock, State Engr., Denver, Colo., for sinking an artesian well at or near Cortez.

HASWELL, COLO.—Bids are asked until noon, Feb. 26, by Charles W. Comstock, State Engr., Denver, Colo., for sinking an artesian well near here.

YACOLT, WASH.—The city has under consideration the installation of a municipal water-works system. Preliminary plans and estimates have been made and the city is considering issuing bonds for the construction. Arthur D. Monteith, Chamber of Commerce Tower, Portland, Ore., is Consulting Engr.

SAN DIEGO, CAL.—The City Engineer has prepared plans and specifications for a steel water tank and standpipe for Point Loma, 47 ft. high, 40 ft. diameter. Plans for a similar tank and standpipe for University Heights will also be prepared.

RIVERSIDE, CAL.—The Riverside Groves & Water Co. have opened a tract of 9,000 acres and propose to construct a 30-acre storage reservoir and an irrigation system. Judge Kenneth, Las Vegas, Nev., will develop water on a large tract in the Vegas Valley, a dam and pumping plant to be constructed.

SACRAMENTO, CAL.—Bids will be received until Feb. 7 by M. J. Desmond, City Clk., for supplying the Water Department with 8,400 ft. of 6-in. and 2,820 ft. of 12-in. pipe.

COEUR D'ALENE, IDAHO.—O. [illegible] Waller, of Pullman, Wash., has submitted his report to the City Council on the proposed municipal water-works. He [illegible]rs Lake Coeur d'Alene as the source of supply and estimates the cost, if wood pipe is used, at $226,000, and about $23,000 additional if iron pipe is used.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

ANSONIA, CONN.—Bids will probably be received in March for the construction of 1,250 ft. of outfall sewer. V. B. Clarke is City Engr. Noted on Jan. 6.

HARTFORD, CONN.—The plan for the construction of the East Side sewer system, for which an appropriation has been made by the city, have been submitted to the Court of Common Council. Within two months the details will be completed and bids will be asked for.

HUDSON, N. Y.—Bids are asked by Charles H. Strong, Pres. Bd. of Managers of N. Y. State Training School for Girls, Hudson, until 1 p. m., Feb. 12, for the construction of contact beds for sewage disposal plant. F. B. Ware is State Arch.

BINGHAMTON, N. Y.—John A. [illegible]les, City Engr., has completed and submitted to the City Council a report on the sewers for the western part of the Frst Ward. He recommends that a sewer be built from Lake Ave. across Glenwood Ave. and down Trout Brook to the Chenango River.

TROY, N. Y.—The City Engineer has been instructed to prepare plans for the construction of a sewer in Lincoln Ave.

MONTICELLO, N. Y.—Bids will probably be received about March 1 for the construction of the proposed sewer system and disposal plant, from the plans of George N. Bell, of Kingston. Estimated cost, between $75,000 and $100,000. Noted on Jan. 13.

SYRACUSE, N. Y.—Contract for constructing the Harbor Brook intercepting sewer has been awarded to CHARLES T. HOOKWAY, 557 Lancaster Ave., Syracuse, at $4,715. Bids were opened on Jan. 18 by the Intercepting Sewer Board, Harry T. Hamlin, Secy.

*MEDINA, N. Y.—Bids will be received by the Board of Sewer Commissioners until 8 p. m., Feb. 15, for furnishing all materials and labor and constructing an addition to the sewer system of the village for the western portion.

PATERSON, N. J.—The Federal Government and the New York authorities have reached an agreement, it is reported, in regard to the construction of the proposed Passaic Valley trunk sewer. As planned, the conduit is to be built down the Passaic Valley below Paterson, carry off the sewage of Paterson, Passaic, Newark, Garfield, Belleville, Harrison and other cities, sewage to be screened at a station to be established on the meadows south of Newark and the solid matter to be transported in especially constructed vessels to the ocean. The liquid sewage remaining after the screening is to be pumped into New York Bay through a large conduit which is to be built from the station on Newark meadows, under Newark Bay, under Greenville and to a point near Robbins Reef. The conduit is to run under Greenville 50 ft. below the surface.

ALDENE (Elizabeth post-office), N. J.—The citizens of Aldene and Lorraine on Jan. 25 voted in favor of constructing a sewer system. Estimated cost, $54,000.

PITTSBURG, PA.—The Council on Jan. 17 approved the ordinance providing for a bond issue of $360,000 for reconstructing sewers.

ATLANTA, GA.—See item under Streets and Roads.

PERRY, FLA.—Bids are asked by the city until Feb. 8 for the construction of a sanitary sewer system, including three miles of pipe 8 to 15-in. diameter, manholes, flush tanks, etc. William W. Lyon, 305 Duval Bldg., Jacksonville, Fla., is Engr.

QUINCY, FLA.—Bids were opened on Jan. 12 by the city for constructing a sewer system, consisting of 7.5 miles of 8, 12, 15 and 18-in. pipe sewer, 70 manholes, 20 flush tanks and a septic tank. Contract has been awarded to SULLIVAN & LONG, of Bessemer, Ala., at the following prices: Excavating and backing for sewers 4 ft. to 26 ft., 17 cts. to $2.40; laying straight sewer pipe, 8-in. to 18-in., 3 cts. to 12 cts. per lin. ft.; solid rock, $1.75 per cu. yd.; manholes, $20 to $45 each; lampholes, not over 8 ft. each, $5; flush tanks, each, $55; concrete and brick work, $8 per cu. yd.; timber, $12 per M ft. Total, $18,994.

VICKSBURG, MISS.—See item under Streets and Roads.

CLEVELAND, TENN.—Bids will be received about April 1 for the construction of a sewer system and disposal plant from the plans of the Solomon Norcross Co., of Atlanta, Ga. Estimated cost, $35,000. Noted on Jan. 20.

TRENTON, TENN.—The city has awarded contract to SULLIVAN & LONG, Bessemer, Ala., for constructing the sewer system.

CINCINNATI, OHIO.—Bids are asked until noon, Feb. 11, by the Director of Public Service for the construction of the surface water sewer in Harrison Ave. John J. Wenner is Clk. Bd. Pub. Service.

INDIANAPOLIS, IND.—JOHN F. SULLIVAN, 3225 North Illinois St., Indianapolis, has been awarded contract by the Board of Public Works at $1.73 per lin. ft., or $35,000, for the construction of the Parkway Boulevard sewer. The work includes a main sewer in Parkway Boulevard, from 18th to 30th St., with laterals in several cross streets. Bids were opened on Jan. 17.

SAGINAW, MICH.—W. N. SEIBER has been awarded contract at $8,620 for the construction of the Ellsworth St. sewer. Noted on Jan. 13.

MARQUETTE, MICH.—Bids are asked until 5 p. m., Feb. 7, by the Park, Cemetery and Park Commission for the construction of an 8 in. tile sewer with 4-in. "Y's" in Front St. J. F. Anderson is Secy.

DETROIT, MICH.—J. J. Haarer, Comr. Pub. Works., will ask the Council and Board of Estimate for about $1,500,000 this year for constructing public sewers and mains, of this amount the sewer system. Of this amount $1,[illegible]14 will be asked for the construction of new sewers.

EAST ST. LOUIS, ILL.—Bids are asked until Feb. 16 by the Board of Local Improvements for the improvement of several streets by constructing vitrified clay pipe sewers.

MOLINE, ILL.—See item under Water Supply—Irrigation.

COLLINSVILLE, ILL.—A. W. EISENMEIER has been awarded contract at $15,-300, for the construction of the improvement of Sanitary Sewer District No. 2, including septic tank, and the following approximate quantities: 10,727 lin. ft. of 8-in. vitrified pipe sewer, 4,017 lin. ft. of 10-in. vitrified pipe sewer, 1,379 lin. ft. of 12-in. vitrified pipe sewer, 120 lin. ft. of 12-in. standard pipe sewer, 36 brick manholes, 16 flush c.-i. pipe sewer, 36 brick manholes, 16 flush tanks, 10 vitrified pipe lampholes, 210 cu. yds. of concrete. Bids were opened on Jan. 15.

MILWAUKEE, WIS.—The plans of Charles J. Poetsch, City Engr., for a relief sewer to take care of flood water in the district around Center and Third Sts. were approved on Jan. 25 by the Council Committee on Sewerage.

DAVENPORT, IOWA.—Thomas Murray, City Engr., has completed specifications for the construction of sewers in Marquette and Ripley Sts. along the water front, about 4,400 ft. long. Estimated cost, about $90,-000.

*BOONE, IOWA.—All bids were rejected on Jan. 26 by the city for sanitary sewers in the Fifth Ward, comprising approximately 9½ miles of from 8 to 15-in. of vitrified sewer pipe. New bids are asked until 8 p. m., Feb. 16. Karl C. Kastberg is City Engr.

ST. PAUL, MINN.—The Board of Public Works has awarded contract for constructing the Otto Ave. and other sewers, bids opened on Jan. 17, to JOHN LIND, 34 East Second St., at $6,350.

WELLINGTON, KAN.—Bids are asked by A. B. Cheever, City Clk., until Feb. 7 for constructing a sanitary sewer in Sewer District No. 5.

BROKEN BOW, NEB.—F. E. Van Antwerp, of Broken Bow, County Surv. and City Engr., would like information regarding the cost, etc., of constructing a sewer system for a town of 5,000 to 10,000 people.

*EL PASO, TEX.—Bids will be received by Percy McGhee, City Clk., until March 3, extension of date from Feb. 3, for furnishing material and constructing refuse incinerating and sewage pumping station, force main and sewage disposal works, with appurtenances, but not including furnaces, pumps and machinery. Also, same time and place, for construction of refuse incinerator, steel stack and sewage pumping station equipment. Herring & Fuller, 170 Broadway, New York, are Engrs. F. H. Todd is City Engr.

BEEVILLE, TEX.—Bartlett & Ranney, San Antonio, Tex., have been selected to prepare preliminary surveys, designs and estimates for a sewer system, here.

HOUSTON, TEX.—Bids are asked by Dan C. Smith, City Controller and Secy., until noon, Feb. 7, for the construction of sanitary sewers in the Fourth Ward. The work will comprise about 5,580 lin. ft. of 12-in. pipe, with necessary manholes, flush tanks, Y's, etc.

ARDMORE, OKLA.—The city has engaged the J. W. Maxcy Co., 906 Scanlan Bldg., Houston, Tex., as consulting engineer for filtration and sewerage system.

SAPULPA, OKLA.—SUMMERS & STONE, Oklahoma City, Okla., have been awarded contract by the city at $44,718, for furnishing all labor and materials for the construction of brick trunk sewer in this city. The work includes the following approximate quantities: 10,800 cu. yds. excavation, 1,100 ft. of 42-in. 2-ring brick sewer, 9,700 ft. of 66-in. 2-ring brick sewer, 850 ft. of 69-in. 2-ring brick sewer, 670 ft. of 78-in. 3-ring brick sewer, 600 ft. of 84-in. 3-ring brick sewer, eleven manholes and nine inlets, 300 ft. of 24-in. vitrified sewer pipe, 52 yds. of concrete. Bids were opened on Jan. 10.

*DENVER, COLO.—Bids were opened by the Board of Public Works on Jan. 15 for the construction of the sanitary sewer to run from University Park to Berkeley, with branches to be about 30 miles in length. Contract has been awarded to DENNIS GIBBONS at $587,660. Noted on Jan. 27.

SACRAMENTO, CAL.—Bids will be received until Feb. 14 by M. J. Desmond, City Clk., for furnishing and installing at the sewage pumping station an additional pumping unit, same to be either steam or electrically driven.

SAN FRANCISCO, CAL.—ROBERT C. STORRIE & CO., Fort Worth, Tex., have been awarded contract by the city at $168,-700 for the construction of the Hunter's Point sewer. Marsden Manson is City Engr.

MAYFIELD, CAL.—Bids will be received about Feb. 10 for the construction of a sewer system, from plans of J. F. Byxbee, Jr., of Palo Alto. Estimated cost, about $37,000. W. H. Myrick is Town Clk.

SANTA CLARA, CAL.—We are officially advised that bids were received on Jan. 24 by the city for the construction of 16-in. outlet sewer; also purifying plant consisting of tank and filters, as follows, (a) total work, (b) purifying plant only, (c) sewers only: (a) M. A. Eiftmann, San Mateo, $15,-544; John Doyle, San Jose, $17,710; Durbrow & White, San Francisco, $17,998; John Heafey, Oakland, $16,850; John McReynolds, San Jose, $19,000; W. J. Schmidt, Berkeley, $19,172; Waldie & Loofbourrow, Berkeley, $19,390; C. D. Vincent, Oakland, $21,934; R. W. Randall, Berkeley, $22,000; Scott & Farley, San Francisco, $23,022; (b) M. A. Eiftmann, $7,012; John Doyle, $7,343; Durbrow & White, $8,000; John Heafey, $8,-150; Waldie & Loofbourrow, $8,990; Morrison Bros., Santa Clara, $11,360; (c) M. A. Eiftmann, $8,532; John Heafey, $8,700; W. J. Schmidt, $9,750; Durbrow & White, $9,-998; Federal Construction Co., San Francisco, $9,655; John Doyle, $10,467; Waldie & Loofbourrow, $10,600; Haselwood & Doane, $11,634. C. E. Moore is Engr., Santa Clara.

TORONTO, ONT.—Bids are asked until noon, Feb. 8, by G. R. Geary, Mayor and Chn. Board of Control, for the construction of various sewers.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

PITTSBURG, PA.—The Council on Jan. 17 passed an ordinance approving the proposed bond issue for $185,000 for a rubbish and garbage disposal plant.

EAST ST. LOUIS, ILL.—Contract has been awarded by the city to the EAST ST. LOUIS REDUCTION & SANITARY CO. for the disposal of the garbage of the city.

PORTLAND, ORE.—The Board of Health on Jan. 19 awarded the contract for the garbage crematory to the WILLIAMETTE STEEL & IRON WORKS, at $119,500.

PASADENA, CAL.—Bids will be received by the City Clk. until Feb. 8 for street sprinkling for one year, 6 to 14 teams equipped with drivers and harness required. Sprinkling, day or night, or both, on direction of Superintendent of Streets, city to furnish carts having capacity of 600 gallons. Price per hour each team, with driver, required with bid.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—We are officially advised that bids were received on Jan. 31 by Guy C. Emerson, Supt. of Streets, for repairing asphalt pavement in any street in Boston not under guarantee when ordered to do so by the Superintendent of Streets between Feb. 1, 1910, and Jan. 31, 1911. The contract has been let to the BARBER ASPHALT PAVING CO., 161 Devonshire St., Boston, at $15,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Feb. 14, for regulating, grading, curbing and laying sidewalks on various streets in the Boro. of Queens.

TOMS RIVER, N. J.—Bids will be received by the Bd. of Chosen Freeholders until Feb. 14 for resurfacing a gravel road in the Township of Brick, known as the eastern section of Lakewood and Point Pleasant County Road, about 3.69 miles; also, at same time and place for resurfacing with stone a road in Brick Township, known as western section of Lakewood and Point Pleasant County Road, 2.94 miles. I. H. Cramer is County Engr., Cedar Run, N. J.; James E Otis is Dir.

TOWSON, MD.—Bids are asked until noon Feb. 17, by the Highways Commission of Baltimore County, Towson, Md., for improving the public highway between Mount Washington and Brooklandville, known as Falls Road, Section 2. The work includes grading and macadamizing about 3.2 miles of road. E. Hanton Bosley is Secy. of Comn.

WASHINGTON, D. C.—Bids are asked until noon, Feb. 3, by the District Commissioners for furnishing and delivering 800,000, more or less, asphalt paving blocks to the District of Columbia for use on the Union Station Plaza and its intersecting streets.

*NORFOLK, VA.—Bids are asked until noon, Feb. 15, by the Board of Control for regulating and repaving with some smooth material, parts of Granby and Chapel Sts. in this city. Bids must be made for each street separately. W. T. Brooke is City Engr.

OXFORD, N. C.—Bids are asked until March 7 by the Commissioners of Granville County for constructing 20 miles of roads. Specifications will be on file, in the office of the Register of Deeds of Granville County, N. C., on and after Feb. 21.

CHARLESTON, S. C.—Bids were received as follows on Jan. 29, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for paving at the Charleston (S. C.) Navy Yard: U. S. Wood Preserving Co., 165 Broadway, New York, $3.38 per sq. yd. for wood block; David Getaz Son & Co., Deederick Bldg., Knoxville, Tenn., brick, $2.80; wood block, $2.05; gravel, $1.25; complete, brick paving with 6-in. concrete base, $19,800; same with 5-in. base, $18,720; complete, granulithic, $14,760; B. F. Sweeten & Son, 111 North Delaware Ave., Camden, N. J., vitrified block, with 6-in. base, $14,770; Atlantic Bitulithic Co., Mutual Bldg., Richmond, Va., bitulithic, $2.25; gravel, 72 cts.; complete, bitulithic, with 6-in. base, $16,000; same with 5-in. base, $15,000; P. D. Hay, 39 Bee St., Charleston, S. C., brick, $3.22; wood block, $4.37; gravel, 59 cts.; complete, vitrified brick, with 6-in. base, $23,184; creosoted block, with 5-in. base, $30,960; Bowe & Page, 50 Wentworth St., Charleston, S. C., Bessemer block, $2.76; Bessemer special paver, $2,695; Carlyle paving block, $2.725; Southern Clay Mfg. Co. blocks, $2.52; Baltimore block, $2.67; Mack Block, $2,645; wood paving block, $2.03; gravel, 58 cts.; complete, with 6-in. base, Bessemer special paver, $14,354; Southern Clay Mfg. Co., $13,964; Baltimore block, $14,432; Mack block, $14,614; wood block, $16,096; for 5-in. base deduct $500 from each of these prices.

ATLANTA, GA.—Bids will be received by the Mayor and General Council until Feb. 7 for the following work and material for the year 1910: Furnishing and setting granite and concrete curbing, furnishing and laying brick, tile and sheet cement sidewalks; and constructing such sewers as may be authorized by Council, not including such sewers as may be authorized by the Bond Issue; furnishing Portland cement, vitrified sewer pipe and castings for sewer work. J. P. Foster is City Clk.; R. M. Clayton, City Engr.

*BIRMINGHAM, ALA.—We are officially advised that the following bids were received on Jan. 19, by Maury Nicholson, City Engr., for paving various streets in this city:

(a) Filbert Paving & Construction Co., Pennsylvania Bldg., (using "Filbertine"); (b) Southern Bitulithic Co., Brown-Marx Bldg., Birmingham (asphalt); (c) Thomas J. McGovern (asphalt); (d) Southern Bitulithic Co., Birmingham (bitulithic); (e) F. B. Jamison & Co. (brick); (f) Crockett Paving Co., Woodward Bldg., Birmingham (brick); (g) Birmingham Paving & Contracting Co., Birmingham (brick); (h) R. S. Blome Co. (granitoid); (i) Graves-Mathews Paving Co., 1710 Ave. A, Birmingham (brick); (j) Metropolitan Construcion Co. (asphalt); (k) Southern Paving & Construction Co., Brown-Marx Bldg., Birmingham (brick), (l) Dunn & Lallande, Alabama National Bank Bldg., Birmingham (brick); (m) Memphis Asphalt & Paving Co., Tennessee Trust Bldg., Memphis, Tenn. (asphalt); (n) Birmingham Paving & Contracting Co. (rock asphalt).

On 13th St., from Eighth to Kirkland Aves. and on 12th Ave., from 12th to 13th Sts., and on 12th St., from 12th to 13th Aves.: (a) $19,238, (b) $19,839, (c) $20,-154, (d) $20,785, (e) $21,469, (f) $21,586, (g) $21,879, (h) $22,113, (i) $22,113, (j) $22,430, (k) $22,464, (l) $22,557, (m) $23,-283.

On 15th St., from Second to Eighth Aves.: (a) $19,316, (b) $21,038, (c) $20,603, (d) $22,325, (e) $23,304, (f) $23,431, (g) $23,-749, (h) $24,003, (i) $24,003, (j) $23,906, (k) $24,130, (l) $23,876, (m) $25,273, (n) $16,425.

On 16th St., from First Ave. to Ninth Ave.: (a) $24,788, (b) $26,860, (c) $26,394, (d) 28,468, (e) $29,663, (f) $29,845, (g) $30,293, (h) $30,568, (i) $30,614, (j) $30,-674, (k) $30,729, (l) $29,926, (m) $32,336, (n) $21,994.

On 14th St., from Second Ave. to Fourth Ave., and from Sixth Ave. to Eighth Ave. (total without track): (a) $15,138, (b) $16,-536, (c) $16,166, (d) $17,565, (e) $18,350, (f) $18,450, (g) $18,700, (h) $18,900, (i) $18,900, (j) $18,878, (k) $19,200, (l) $19,-200, (m) $19,900.

On 17th St., from First Ave. to Ninth Ave. (total without track): (a) $17,072, (b) $18,286, (c) $18,106, (d) $19,320, (e) $20,-047, (f) $20,199, (g) $20,564, (h) $20,-693, (i) $20,783, (j) $20,912, (k) $21,004, (l) $21,004, (m) $22,075.

On 19th St., from Sixth Ave. to Ninth Ave. and Eighth Ave. from 17th St. to 20th St. (totals without tracks): (a) $18,959, (b) $20,555, (c) $20,202, (d) $21,798, (e) $22,-782, (f) $22,856, (g) $23,254, (h) $23,420, (i) $23,504, (j) $23,548, (k) $23,768, (l) $23,775, (m) $24,921.

On Fourth Ave., from 13th St. to 18th St. (totals without tracks): (a) $12,936, (b) $13,899, (c) $13,728, (d) $14,691, (e) $15,264, (f) $15,363, (g) $15,809, (h) $15,-744, (i) $15,778, (j) $15,840, (k) $15,980, (l) $16,000, (m) $16,680.

On Sixth Ave., 14th St. to 20th St. (totals without tracks): (a) $24,781, (b) $26,890, (c) $26,412, (d) $28,524, (e) $29,723, (f) $29,914, (g) $30,392, (h) $30,652, (i) $30,-720, (j) $30,756, (k) $31,117, (l) $30,797, (m) $32,484, (n) $21,249.

VICKSBURG, MISS.—The contract for paving and storm sewers on Drummond St. has been awarded to the SOUTHERN PAVING & CONSTRUCTION CO., of Chattanooga, Tenn., at $19,000. C. O. Twiss is City Engr. Bids were received on Jan. 17.

COLUMBUS, OHIO.—The Engineering Department of Columbus has completed plans for paving High St., between Spruce and Dodridge Sts. next summer. The engineering department will recommend that the work be started north of Fifth Ave. first, and instead of repairing the sections which are worn out the entire street will be resurfaced. Asphalt from gutter to gutter, asphalt with brick gutters, asphalt block and wood block will figure in the estimates to be made by Henry Maetzel, City Engr. It is expected that bids will be called for within two months.

DAYTON, OHIO.—The City Council has decided to pave Germantown St. with asphalt or brick. Fred J. Cellarius is City Engr.

CINCINNATI, OHIO.—Bids are asked until noon, Feb. 11, for the furnishing and delivering of 300 tons of refined asphalt for use of the Street and Sewer Repair Department, to be delivered f. o. b. municipal asphalt plant switch, Cincinnati, Ohio. John J. Wenner is Clk.

GLENDALE, OHIO.—We are officially advised that bids were received on Jan. 21, by the Board of County Commissioners for the following county work: Under Specification No. 994, for the improvement of Congress Ave., through the Village of Glendale, Springfield Township. Fred Dreihs is Clk., Cincinnati, Ohio. The contract was awarded to WILLIAM P. FLYNN on Jan. 25, at $8,802.

MARION, IND.—Bids will be received until Feb. 17 by the Board of County Commissioners for grading and macadamizing the John W Keever stone road, on the line between the townships of Monroe and Jefferson, being a total length of 12,292 ft. A. T. Stout is County Audr.

INDIANAPOLIS, IND.—The Indiana Supreme Court having reversed itself and finally held the Three-Mile Gravel Road Law to be constitutional has been the means of reviving the work of building roads by issuing township bonds. Bids will now be received for the construction of gravel, stone, or brick roads as follows: Terra Haute, Ind.—Commissioners of Vigo County will receive bids for three gravel roads. Mimeie, Ind.—Commissioners of Delaware County will soon ask for bids for the construction of six brick roads. Crawfordsville, Ind.—Commissioners of Montgomery County will soon ask for bids for the construction of two gravel roads. Columbus, Ind.—Petitions have been filed for the construction of three gravel roads with the Commissioners of Bartholomew County.

JACKSON, MICH.—A. W. D. Hall, City Engr., has been authorized to prepare estimates for paving with brick Francis, Milwaukee and Liberty Sts.

EAST ST. LOUIS, ILL.—Bids are asked by the Board of Local Improvements until Feb. 15 for paving with brick and curbing portions of Illinois Ave. and Louisiana Boulevard. W. J. Crocken is City Engr.

CHAMPAIGN, ILL.—GEORGE A. PETER, of Sycamore, Ill., has secured the contract for paving with brick a portion of South Goodwin St., at $6,450.

PEORIA, ILL.—Bids are asked until 2 p. m., Feb. 7, by the Board of Local Improvements for resurfacing the roadway of Seventh Ave. The following is an approximate estimate of the material and labor required: 860 cu. yds. of excavation of old asphalt pavement (cushion and surface coat) down to the present concrete foundation; 207 cu. yds. of excavation of old foundation; 1245 sq. yds. of new concrete to replace disintegrated concrete in the present foundation; 12,455 sq. yds. of binder course one inch thick; 12455 sq. yds of wearing course 1½ ins.; 14 bbls. of natural cement swept in. Work is to be completed by Aug. 1 next. Geo. F. Simmons is Pres.; Clay Belsley is City Engr.

OCONOMOWOC, WIS.—Bids will be received until Feb. 11 by the Board of Public Works for improving Collins and Main Sts. E. B. Parsons is Engr.; B. G. Edgerton is Chn.

CRESTON, IOWA.—We are officially advised that bids were received by the City Council on Jan. 25 for paving with 2½-in. asphaltic macadam, on a 4-in. concrete base, and constructing concrete curb on portions of North Walnut, East Mills, West Adams, and three other streets. The contract for paving has been let to HAMILTON & SCHWARTZ, of Shenandoah, Iowa, at $1.68 per sq. yd. The contract for curbing has been awarded to the TWO MIRACLE CONSTRUCTION CORPORATION, of Minneapolis, Minn., at 34½ cts. per lin. ft. J. F. Golden is City Clk.; Theodore S. Delay is City Engr. Total estimate, $33,600.

ATLANTIC, IOWA.—Bids are asked until Feb. 14 for brick and asphalt paving, to cost about $60,000. Charles P. Chase, of Clinton, Iowa, is Engr.

BURLINGTON, IOWA.—Bids are asked until 4 p. m., Feb. 21, by the City Clk., to grade,, curb with artificial stone and pave with mineral rubber asphaltic concrete, Arch St., from the west side of Fifth St. to the east side of Sixth St., and from the west side of Sixth St. to the east side of Eighth St., and from the west side of Eighth St. to the west side of Central Ave., 40 ft. wide between curbs and Central Ave. from the south side of Arch St. to the north side of High St., 32 ft. wide between curbs, including all necessary intersections, said improvements to be on a 5-in. concrete foundation. J. F. Winters is City Engr.

WINFIELD, KAN.—It is proposed to pave East Ninth St. with brick at a cost of $20,000. J. M. Bradley is City Engr.; George W. Sloan is City Clerk.

CHERRYVALE, KAN.—Bids will be received until Feb. 7 by E. E. Bellamy, City Clk., for about one-half mile concrete curb and 4500 yds of brick pavement.

ST. LOUIS, MO.—We are officially advised that the GRANITE BITUMINOUS PAVING CO., Equitable Bldg., St. Louis, has been awarded the contract for 23,782 sq. yds. of bitulithic pavement on Connecticut Ave., 22nd St., and Scanlan Ave.

KIRKVILLE, MO.—Bids are asked until Feb. 7 for 6,000 sq. yds of brick paving on 5-in. concrete base; also, 4,500 lin. ft. concrete curb and gutter. J. C. Carothers is City Clk.

OKLAHOMA CITY, OKLA.—The Oklahoma City Park Board will receive bids soon for grading about 20 miles of boulevard, to be constructed around the city. W. C. Burke is City Engr.

PORTLAND, ORE.—We are officially advised that the WARREN CONSTRUCTION CO., Portland, Ore., has secured the contract to pave 21,629 sq. yds., with bitulithic pavement.

RIVERSIDE, CAL.—The City Council has adopted a resolution to macadamize, curb and gutter Ninth St., between Lemon and Sedgwick Sts.

SANTA ANA, CAL.—Bids are asked by the Board of Trustees of Santa Ana until Feb. 7 for paving with asphalt West 4th St. Edward Lidford is Clk.

SAN DIEGO, CAL.—The City Council has directed the City Attorney to prepare necessary papers to advertise for bids for paving with asphalt on concrete base D St., from Tenth to 25th Sts.

SANTA MONICA, CAL.—J. D. KEEN, of Santa Monica, has the contract to construct a cement sidewalk, 20 ft. wide, along Ocean Front Promenade, at $28,839.

SAN MATEO, CAL.—Bids are asked by Clerk of Supervisors until Feb. 14 for grading turnpiking and oiling four miles of road. Joseph H. Nash, Redwood, is City Engr.

LOS ANGELES, CAL.—The contract for improving four miles of roads, including Slawson, Compton and Florence Aves., has been awarded to F. F. PRENDERGAST, at $30,657. Bids were opened on Jan. 3.

Bids will be received by the Clerk of Board of Supervisors until Feb. 14 for grading, turnpiking and oiling of four miles of road. P. H. McEvoy is Chn.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

NEW BEDFORD, MASS.—The Whitman mill interests have purchased a tract of land in the northwest section of the city for a site of a new mill. This mill, which will be located on the line of the New York, New Haven & Hartford R. R., will have a site away from the waterfront. It is stated also, that William Whitman will locate a mill north of Nonquitt Mill No. 2, on property purchased by him from the Bartlett estate.

ATHOL, MASS.—Plans for a $10,000 addition to the N. D. Cass toy factory have been drawn and when completed the addition will be 100 × 50 ft. and four stories high. The foundation will be of cement, and the building of wood, with imitation granite block cement covering, and will be fireproof throughout. The work will be started as soon as the frost begins to leave the ground, and will be completed in 60 days. The addition will give work to 400 more employees.

Union Twist Drill Co. will soon begin the erection of a 1-story addition to its present large factory.

WHITINSVILLE, MASS.—The Whitin Machine Works' plant will be increased in the spring by additions to the foundry and blacksmith shop. Both these buildings are new and have been occupied less than a year. The foundry is 500 ft. long and 200 ft. wide. The addition will make it 300 ft. wide. For the blacksmith shop, the addition will be on the west, extending it 87 ft., and will be the width of the shop, 100 ft. The concern is completing an addition to its main shop 405 ft. long, 142 ft. wide and four stories high, a steel and brick structure which will give the company a total floor space of nearly 42 acres.

PROVIDENCE, R. I.—Plans of the American Locomotive Co. for enlarging its automobile manufacturing department, have been in contemplation for some time. It is now definitely stated that the company has decided to spend $500,000 in this expansion, and ground is to be broken shortly for the erection of new buildings adjoining the present automobile plant at Providence, R. I. It is understood that an additional $150,000 will shortly be spent for new tools and machinery, and it is anticipated that the new building will be completed by midsummer, as the company expects to more than double its present yearly output in 1911. The Alco factory, at Providence, is now greatly congested and the company is making no locomotives there, according to the "Iron Age." A number of old buildings where locomotives were formerly manufactured have been taken over by the automobile department.

HARRISVILLE, R. I.—Work will be started soon on the erection of a woolen mill at Harrisville to replace the buildings of the William Tinkham Co., recently purchased by the U. S. Worsted Co. The mill will be of concrete and glass construction, three stories in height, with a tower. The main building will be 270 × 48 ft. A smaller building, 175 × 60 ft., will house the steam power house, dye house, store room and dry house. The cost of the new plant will be $75,000.

WOONSOCKET, R. I.—We are officially advised that Charles T. Main, Mill Engr. and Archt., 201 Devonshire St., Boston, Mass., is working upon plans for a new worsted spinning plant for the Samoset Worsted Co., Woonsocket, R. I. The main building will be 115 ft. wide by 158 ft. long, consisting of three stories and basement, with office building attached. The walls will be of brick and the floor beams of steel. The Bradford system of spinning will be employed. Bids will be received at once. Noted on Jan. 20.

BUFFALO, N. Y.—Work is to be started soon at 61-65 Tonawanda St. for the construction of a 1-story brick foundry, to be occupied by Theodore C. Fedders' plant. Cost, $28,000.

BUFFALO, N. Y.—The Superior Motor & Vehicle Co., Buffalo, N. Y., has secured a site on Elmwod Ave. and will proceed immediately to erect a plant. The first building will be four stories, 70 × 400 ft., and a power-house of sufficient size. Later another building, 70 × 500 ft., will be erected. Charles B. Kane is Gen. Mgr.

NIAGARA FALLS, N. Y.—We are officially advised that the U. S. Light & Heating Co., 30 Church St., New York, is about to build at Niagara Falls a factory for the manufacture of car lighting equipment, including generators, regulators, storage batteries, etc. This plant will accommodate the business formerly conducted at the plants of the Bliss Car Lighting Co. at Milwaukee, Wis., the National Storage Battery Co. at Buffalo, N. Y., and the existing plant of the U. S. Light & Heating Co.

KEARNY (Newark post-office), N. J.—The J. H. Ladew Co., tanners, of Newark, will start work next month on a new plant to be erected in the town of Kearny. The factory will be located on the Passaic River, adjoining the Newark Plank Road. The four buildings, which will constitute the plant, will be of brick construction, and one section will be four stories high. Among the buildings will be a foundry, and the estimated cost of constructing the plant is said to be $115,000.

PHILADELPHIA, PA.—EDWARD FAY & SON, 2666 Richmond St., have a contract to build a $10,000 addition to the B. Bernheim & Sons Co.'s factory at Germantown Ave. and Master St.

CANONSBURG, PA.—The Continental Can Co., operating plants in several cities, has selected Canonsburg, Pa., as the location in which to erect a large mill. It recently bought a large tract of land adjoining the property of the Standard Tinplate Co. and will rush the work upon the buildings. The company will manufacture, at its new plant, a patented sanitary tin fruit can, and has agreed to take annually 100,000 base boxes from the Canonsburg Tinplate Co. One of the new buildings to be erected will be 85 × 260 ft.

PITTSBURG, PA.—The National Bolt & Nut Co. of this city, John W. Hubbard, Pres., will spend $500,000 in improving and increasing the capacity of recently-acquired plants in Chicago, Canton, Ohio, and Pittsburg. The company will employ 800 additional men in these places, according to the Pittsburg "Post." The concern, which a short time ago purchased a plant near the Sharpsburg bridge from the Standard Oil Co., plans to spend $100,000 there in doubling the output of the galvanizing and other departments. The plant which was recently bought in Chicago and organized with a capital of $300,000 will receive $200,000 for improvements, while $100,000 will be spent in Canton on the new subsidiary concern.

WINSTON-SALEM, N. C.—Stockholders of the Inverness Mills Co., incorporated, with a capital stock of $150,000, will meet this week to effect formal organization. This company will build a plant at Winston-Salem, N. C., and its equipment will probably be 10,000 spindles and 300 looms for manufacturing gray goods. The $150,000 has been subscribed and the authorized capitalization is $200,000, which is expected to be paid in soon. A site of twelve acres has been obtained and the completed plant will employ about 250 persons. The stockholders include Lawrence McRae, who is the promoter of the enterprise; H. G. Chatham, largely interested in woolen manufacture at Winston-Salem, N. C.; James A. Gray, E. S. Gray, R. J. Reynolds, M. D. Stockton, A. F. Sams, A. H. Zeller, H. R. Starbuck. W. E. O'Hanlon, C. E. Webb, J. L. Patterson, Henry W. Masten, R. T. Butner, E. D. Vaughan, H. D. Hodgin, W. T. Brown and others of Winston-Salem; James B. Duke and W. W. Fuller, of the American Tobacco Co., New York, and other New York capitalists. Mr. McRae will be the executive of the company and will have entire charge of plans, construction, equipment, etc.

WELLFORD, S. C.—The Wellford Mfg. Co., of Wellford, S. C., has been incorporated for textile manufacturing, but details of the plant have not been stated. This company is capitalized at $40,000, and its incorporators are Vernon Muckenfuss, W. M. Jones and others of Spartanburg, S. C.

EASLEY, S. C.—The Alice Milling Co., Easley, S. C., has been formally organized, the directors being W. M. Hagood, W. C. Smith, Lewis W. Parker, W. C. Cleveland, J. E. Sirrine, James D. Hammond, E. P. Smith, S. Baldwin, Jr., J. McD. Bruce and E. P. Smith. They are all interested in Southern cotton mills, and Joseph E. Sirrine, of Greenville, S. C., is Arch.-Engr., who will plan, build and equip the Alice plant. E. H. Shanklin has been elected Pres. and Treas., with W. M. Hagood, Vice-Pres. and Roy R. Smith, Secy. This company was incorporated for the purpose of building a mill of 10,000 spindles and 300 looms to manufacture cotton cloth. Its capital stock is $250,000. We are officially advised that the owners will build. Note on Jan. 20.

SENOIA, GA.—The Senoia Cotton Mill, of Senoia, Ga., has accepted plans and specifications for its buildings, and awarded the contract for construction. The contractor is J. W. MINTER, of Senoia, who will begin work at once. The building will be of brick, 267 × 94 ft., with rock and cement foundation. Its equipment of spindles, etc., has not yet been announced. The Senoia company was mentioned last week as incorporated with a capital stock of $100,000 by Lee Hand, L. Arenall, L. Ware and others.

NEW ORLEANS, LA.—Penick & Ford, Ltd., will erect a molasses refinery in New Orleans. The plant will be on the river front. J. P. Ford, Vice-Pres., said, probably at Southport, Avondale or some other place above or below New Orleans. The plant will occupy a site of eight or ten acres. Plans for the new plant are now in the hands of Favrot & Livaudais, Abraham Bldg., Archs., and will be on the market in two or three weeks. The plans contemplate a cold storage plant and a tin can factory. It is probable that the company will erect its own box factory. The officers of the company are W. S. Penick, Jr., of Shreveport, La., Pres., J. B. Ford, Vice-Pres., and F. S. Johnson, of Shreveport, Secy.-Treas. Mr. Ford has taken up his residence in New Orleans. The estimated cost of the proposed New Orleans plant is $400,000.

DAYTON, OHIO.—The Washed Sand and Gravel Co., of Dayton, will install a crushing, screening and washing plant in its pit on the Cleveland, Cincinnati, Chicago & St. Louis Ry., south of this city.

LOWELLVILLE, OHIO.—Julian Kennedy, Bessemer Bldg., Pittsburg, Steel Engr., has been engaged to take charge of the construction of the new open hearth steel plant to be built by the Ohio Iron & Steel Co. at Lowellville. The plans call for six open hearth steel furnaces, gas producers, four soaking pits with provision for doubling the capacity, a 38-in. blooming mill, sheet bar, skelp and billet mills. The company has acquired 1¾ miles of land fronting on the Mahoning River and south of the tracks of the Pennsylvania R. R. When the plant is completed it will have a capacity of 750 tons a day and will give employment to several thousand men. The plant is one of the additions to the company's mills which will extend from Girard to Lowellville.

WESTERVILLE, OHIO.—The Frock Shoe Co., which was recently incorporated with a capital stock of $50,000, will begin operation of a shoe factory in Westerville, having purchased 42 acres of ground, and is having plans drawn for a factory building. The company will manufacture children's and misses' shoes as specialties, and later will add a line of women's shoes. It expects to dispose of lots in the vicinity of its factory, the ground having been platted and the plat being before the Council of Westerville for approval. The officers of the company are W. C. Freck, of Columbus, Pres. and Gen. Mgr.; William T. Wells, of Columbus, First Vice-Pres.; Paul Fatig, of Columbus, Second Vice-Pres.; P. F. Wilkinson, of Columbus, Secy.; Albert Ross, of Pittsburg, Treas.; W. B. Cockerell, of Westerville, Gen. Counsel. The company has leased a building in Westerville for temporary occupancy by its plant, and early in the Spring will begin the erection of a permanent home.

INDIANAPOLIS, IND.—Excavation work will be begun in a day or two for the erection of an addition to the Brush & Broom Co.'s factory, at Brush and Market st., west of the river and west of the street railroad power house. The building, which will be of brick, one story high, of sawtooth roof construction, will cost $8,000 and it is expected will be completed and ready for occupancy in four weeks. It will have frontage of 79 ft. and a depth of 120 ft., giving a factory space of 20,000 ft. The building will be equipped with individual electric motors, giving room for employment of about 100 workmen, with an output of 400 dozen brooms daily. Frank B. Hunter, State Life Bldg., is Arch. WOLF & EWING, Lemcke Bldg., Indianapolis, are the contractors. Geo. Lemaux, Jr., is Pres.

INDIANAPOLIS, IND.—The Indianapolis Glove Co. has awarded a contract to WM. P. JUNGCLAUS CO., 825 Massachusetts Ave., Indianapolis, to build a factory on Liberty St., to cost $45,500. G. W. Bedell, Law Bldg., is Arch.

BUFFINGTON, IND.—The U. S. Steel Corporation has secured land here upon which it proposes to build and equip a cement plant with a capacity of 2,000,000 bbls. per year. The company has authorized an expenditure of $2,400,000 by the Universal Portland Cement Co., a subsidiary concern, on the Buffington plant.

GREENWOOD, IND.—Quinby & Quinby have ordered plans for the construction of a printing plant on the site of the plant recently destroyed by fire.

GREEN CASTLE, IND.—The Harris Milling Co., recently incorporated, will receive bids for the erection of a flour mill and elevator in this city.

PEORIA, ILL.—The Avery Co. advises us that it is expected to have plans and specifications for the proposed additions to its plant, complete within a few days. Cost, $200,000. G. L. Avery is Secy. Fully noted on Dec. 30 and Jan. 20.

CHICAGO, ILL.—The Boynton Wool Scouring Co., 1063 North Branch St., Chicago, has secured a lot 130 × 300 ft. in the central manufacturing district, on which it will locate its establishment. The buildings to be erected will consist of a 3-story warehouse containing 40,000 sq. ft. and a 3-story building for machinery and storage, 60 × 200 ft. and a 1-story power house. It is estimated that the buildings will cost about $75,000.

CHICAGO, ILL.—Rand, McNally & Co., 166 Adams St., have gained control of the entire ground space desired by the firm at Harrison, Clark and LaSalle Sts., and will proceed this year with the erection of their proposed building.

MILWAUKEE, WIS.—We are officially advised that MOULTON & EVANS, Elevator Corn Exchange, Minneapolis, Minn., have secured the contract to erect a fireproof milling plant and elevator for the Charles A. Krause Milling Co., of Milwaukee, Wis. The buildings will be five stories high, of reinforced-concrete construction, and when completed, will produce 1,000,000 lbs. of horse and cattle feed per day. All of the milling machinery will be electrically operated. The cost of the buildings and machinery will be $250,000. This fireproof plant is being erected to replace the mill recently burned. Moulton & Evans will furnish the entire equipment for the mill and elevator and expect to have the plant in operation July 1.

WATERTOWN, S. DAK.—See item under Buildings.

CHAMBERLAIN, S. DAK.—We are officially advised that the Osborn Engineering Co., Osborn Bldg., Cleveland, Ohio, has started plans for a 1 and 2-story steel or corrugated iron cement plant, to be erected by the Dakota Portland Cement Co., care of D. B. Zimmer, Sioux Falls, S. Dak. Cost, $500,000. Preliminary plans and estimates have been submitted to the owners. Nothing further will be done until about two months.

AUSTIN, TEX.—Judge W. H. Gill, of Houston, Tex., Chm. of the Penitentiary Board of the State of Texas, is said to have announced his intention to prepare for the erection of the state cotton mill for which the Legislature appropriated $100,000 several months ago.

HOUSTON, TEX.—Plans have been prepared for a new 3-story brick or concrete building, to be erected at the corner of Fannin St. and Buffalo Bayou by the International Coffee Co., at a cost of approximately $25,000. Work will be started within the next thirty days, and it is expected that the plant will be ready for occupancy by June 1. The building will be 50 × 75 ft., three stories high. The International Coffee Co. is not incorporated. The business is controlled by W. D. Cleveland & Sons.

FORT LOGAN, COLO.—Bids are asked by Capt. Chase Doster, Q. M., until 10 a. m., Feb. 21, for constructing a laundry building and for plumbing, wiring and installing machinery in same. Specifications are on file at the office of Engineering News, New York.

PORTLAND, ORE.—Frank Legg, 204 East 15th St., has completed the plans for the $30,000 brick bakery, to be erected at the southwest corner of East Seventh and Belmont Sts. It will be two stories in height, and will be built for the New York Bakery Co.

ROSEVILLE, CAL.—The Southern Pacific Co. has approved plans for three [illegible] shops here. Each will be 400 × 500 [illegible]. The company will build an addition [illegible] round house, to accommodate the mogul [illegible] gines now being received. When the [illegible] are installed the company will employ [illegible] 3,000 men here.

NAPA, CAL.—Details have been announced of the formation of the [illegible] tional Cartridge Co., with $100,000 capital. The company will manufacture bullets, which will be suitable for all kinds of pistols and rifles. D. H. Armstrong, promoter of the enterprise, has a plant now in operation in the East. The new factory will be located on the water front of this city. Of the capital stock is paid up, Armstrong contributing $80,000, T. H. [illegible] ship, S. H. Wyckoff, W. T. Rutherford and D. A. Dunlap, of Napa, $10 each. Raw material for belts will be gathered from establishments in the bay cities.

HULL, QUE.—We are officially informed that the E. B. Eddy Co., Ltd., Hull, Que., intends to establish a plant in Western Canada. W. H. Rowley, Pres., advises us that he and G. H. Millen, Joint Mgr., were at Fort William and Port Arthur, Ont., recently to look over the situation and to listen to overtures from each of these cities, desirous that we establish warehouses and a branch factory. No conclusions were reached, but negotiations are in progress there and elsewhere, and although a decision as to site has not yet been determined, nor definite arrangement made, we have fully decided to establish a branch factory somewhere between the city of Hull and the Rocky Mountains."

FORT WILLIAM, ONT.—The terms of an agreement between the town and the Superior Rolling Mills Co. provide that the company will erect a wire nail factory employing at least 100 men for 250 days in the year. H. S. Holt and F. W. Thompson, of the Ogilvie Flour Mills Co., Fort William, are interested.

WINNIPEG, MAN.—The Great West Saddlery Co., E. F. Hutchings, Pres., Winnipeg, Man., will erect an additional factory, 85 × 100 ft., seven stories, fire-proof, to cost $75,000. Construction will start in the Spring.

VANCOUVER, B. C.—The Western Canada Bag, Envelope & Box-Board Co. is being organized, with a capital of $250,000, to manufacture box-boards and building paper roofing, felts, etc. Greely Kolts, Vancouver, is interested.

MISCELLANEOUS CONTRACTS.

*(*denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Davenport, Iowa.—Bids will be received by the Board of Supervisors until Feb. 7 for constructing the Butler Drainage ditch.

WHARF.—New Orleans, La.—W. T. CAREY & BRO., New Orleans, have been awarded contract by the Board of Port Commissioners for the new Dumser wharf, at $25,400.

DITCH.—Marion, Ind.—Bids will be received until 2 p. m., Feb. 12, by D. M. Murphy, Supt. Construction, for construction of the Renbargor Drain. Estimated cost, $3,552.

DITCH.—Anoka, Minn.—Bids are asked until Feb. 16 for constructing County Ditch No. 51, requiring about 41,415 cu. yds. of excavation. Estimated cost, $5,310. Arthur A. Caswell, County Audr.

BULKHEAD.—Santa Monica, Cal.—Bids were received as follows on Jan. 18 by the City Trustees for a bulkhead to be erected at Ocean Park, Santa Monica: J. G. Braun, $22,828; Geo. D. Snyder, $25,280.

DREDGING, EXCAVATION.—Chicago, Ill.—Bids will be received by Maj. Thos. H. Rees, Corps Engrs., U. S. A., Chicago, until 10 a. m., Feb. 23, for dredging and rock excavation in Chicago River.

PILE, CRIB WALLS.—Wheeling, W. Va.—Bids will be received by Capt. F. W. Altstaetter, Corps Engr.s, U. S. A., until 11 a. m., Feb. 24, for constructing pile and crib guide walls for locks Nos. 4-11, Kanawha River.

PIPE LINE.—Glenville, W. Va.—The Freedom Oil & Gas Co. has awarded contract to PETER A. PUGH, Chester, W. Va., for construction of a 32-mile pipe line from its fields in Gilmer County to Doddridge County.

*IRON, STEEL.—Dallas, Tex.—Bids will be received by Capt. A. E. Waldron, Corps Engrs., U. S. A., Dallas, until noon, March 5, for iron and steel delivered at Herrington, Tex., on the Gulf, Colorado & Santa Fe Ry.

TORPEDO BOATS.—Washington, D. C.—Bids will be received by the Navy Department until noon, April 1, an extension of time from Feb. 15, for constructing by contract four submarine torpedo boats (Nos. 28-31).

DITCH.—Wapakoneta, Ohio.—Contract will be let by the Commissioners of Auglaize County this spring for construction of the Muddy Creek extension ditch; about 44,000 cu. yds. of excavation. Estimated cost, $35,000.

DITCHES.—Grand Falls, Tex.—Bids will be received until Feb. 23 (postponement from Jan. 22) by the Drainage Comrs. H. V. Carr, Secy., for constructing about 20 miles of drainage ditches. Estimated cost, $33,000. A. H. Dunlap is Engr.

DITCH.—Troy, Ohio.—The County Commissioners are having surveys and plans made for the construction of the Leatherwood County ditch, which will include about 70,000 cu. yds. of earth excavation. Harry Whitlock, Troy, Ohio, is County Engr.

DRAIN.—Charleston, S. C.—Bids will be received until Feb. 19 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing intercepting drain

No. 2 ... the Navy Yard, Charleston, as per specifi... No. 1695. Appropriation available, ...000.

CA... —Fort William, Ont.—The Nepigon ... Canal and Transportation Co. is ap... to Parliament for incorporation with ... to construct system of canals from ... Superior, via the Nepigon and Albany ... rivers, to James Bay. Wm. A. Dowler is ... citor, Fort William.

DIT... —Warrensburg, Mo.—Bids will be received ... by the Blackwater Drainage District, Johnson County, until March 10 for ... ating a ditch and laterals, about 27 m... length, containing about 1,225,000 cu. y... earth. Robert J. Grover, Deputy Secy. ... O. Stanley, Engr.

CE... BRICK, STONE.—Baltimore, Md.— ... will be received until 11 a. m., Feb. ... by the Board of Awards, care of J. Sewell ... homas, City Register, for furnishing for th... e of the Electrical Commission, the following ... materials and services: Cement, sand, ... ne (crushed), gravel, brick, lumber, hauling ... bulk material.

DRA... AGE.—Hampton, Iowa.—The Board of Supervisors of Franklin County received bids on Jan. 21 for work of construction in Drainage District No. 6, to consist of excavation of about 373,000 cu. yds. of dirt, all open work. F. G. Luke, County Audr. Contract was awarded to the TABOR CONSTRUCTION CO., of Waterloo, Iowa, at 8.62 cts. per cu. yd.

PIERS.—Charleston, S. C.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., March 5, for constructing torpedo boat piers, coaling pier and railroad track at the U. S. Navy, Charleston, S. C. Specification No. 1696 is on file at office of Engineering News, New York. The appropriation now available for this work is $49,000.

DITCH.—Omaha, Neb.—FORRESTALL & DOWNEY, of Milwaukee, Wis., have been awarded contract at 6.37 cts. per cu. yd. for building the Keg Creek drainage ditch. The Keg Creek ditch includes an estimated excavation of 414,000 cu. yds. According to the specifications, work must be commenced by April 1, 1910, and the ditch must be finished by July 1, 1911. The ditch is to be about ten miles in length.

*PIER IMPROVEMENT.—Albany, N. Y.—Bids will be received by Isidore Wachsman, Secy. Board of Contract and Supply, until 3 p. m., Feb. 21, for improvement of State St. pier, by constructing about 1,900 lin. ft. concrete pier walls, with boat landings, on a foundation of wooden round piling and wooden sheet piling, concrete platforms and shelters, a lavatory, etc. Walter Melius, City Engr.

LIFEBOATS.—New York, N. Y.—Bids will be received until 2 p. m., Feb. 8, by the U. S. Life-Saving Service, Treasury Dept., Washington, D. C., for the construction of ten 36-ft. self-righting and self-bailing lifeboats with gasoline engines, to be delivered at New York, N. Y. Bidders should state the time for the completion and delivery of each boat. A proposal for less than the whole number of boats specified will not be considered.

POSTS, WIRE FENCE, ETC.—Winnipeg, Man.—The Board of Control has awarded contract to WEATHERBY & ECKLORD, Winnipeg, at $3,399, for the supply of about 18,000 posts; for the manufacture and delivery of about 42 miles of woven wire fence, and for the erection of the fence along the right-of-way of the city's transmission line, between Brokenhead River and the city. Contract was let to the CANADIAN STEEL & WIRE CO., Winnipeg, at $3,348.

*LEVEE DITCHES.—Carrollton, Ill.—Bids were received by the Commissioners of the Eldred Drainage and Levee District, Carrollton, on Jan. 20 for the construction of levee (1,492,759 cu. yds.), muck ditch (42,220 cu. yds.), drainage ditch, (192,730 cu. yds.). The Herman Engineering Co., Engrs., Peoria, Ill. Contract was awarded to R. H. McWILLIAMS and G. A. McWILLIAMS, Mattoon, Ill., at 9.49 cts. per cu. yd. Total, $161,086.

AIR WASHERS.—Bids were received by the commissioners of the District of Columbia, Washington, D. C., on Jan. 21 for furnishing and erecting in the District Building as follows: Item 1, one 40,000 cu. ft. air washer; item 2, two 30,000 cu. ft. capacity air washers: Thomas & Smith, Chicago, Ill., item 1, $1,263; item 2, $1,900; time, 36 working days; Warren Webster & Co., Camden, N. J., item 1, $1,190; item 2, $2,180; time, 36 working days.

DITCH.—Sioux City, Iowa.—Bids were received on Jan. 18 by the Supervisors of Woodbury and Monona Counties at the office of E. E. Hosmer, County Audr., at Sioux City, for constructing the West Fork ditch and laterals in Woodbury-Monona Drainage Dist. No. 2, containing about 1,000,000 cu. yds. of excavation. Contract was awarded to FORRESTAL & FEYEN, St. Paul, Minn., at 6.9 cts. per cu. yd. for main ditch and 10 cts. and 12 cts. per cu. yd. for laterals.

RAILING.—Boston, Mass.—Bids were received on Jan. 29 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for additional rail around Dry Dock No. 2, U. S. Navy Yard, Boston. Estimated cost, $3,500. Bids were as follows: G. & W. Mfg. Co., 26 Cortlandt St., New York, Item 1, $3,878; Item 2, $3,500; Item 3, $3,700. P. Converse & Co., 88 Broad St., Boston, Item 1, $6,400; Item 2, $5,600; Item 3, $5,500; Item 4, $5,000. C. M. Leach, P. O. Box 2285, Boston, Item 1, $4,633; Item 2, $3,333; Item 3, $4,133.

LEVEE EMBANKMENT, ETC.—Caldwell, Tex.—Bids were received by the Commissioners of Burleson County Improvement District No. 1 at the office of the County Judge at Caldwell on Jan. 22 for the construction of about 25 miles of levee embankment and a small amount of drain ditch. Contract was awarded to ROACH & STANSELL, of Memphis, Tenn., at $176,085. The itemized bid was as follows: Clearing, 75 acres, at $45; grubbing, 30 acres, at $77; sodding, 100 acres, at 10; earthwork, 1,000,000 cu. yds., at 16.8 cts.; bridge lumber, 30 M. ft. B. M., at $45.

U. S. POSSESSIONS.

(denotes that this work is advertised in Engineering News.)*

DUMP CARS.—Panama.—The Isthmian Canal Commission, Washington, has awarded contract for furnishing 250 double dump cars, all-steel and air-operated, 19-cu. yds. capacity, to W. J. OLIVER MFG. CO., Knoxville, Tenn., at $358,500.

CRANE.—Panama.—Bids were received as follows on Jan. 28, by the Isthmian Canal Commission, Washington, for furnishing one self-propelling, 75-ton capacity, wrecking crane, similar to the standard 75-ton Bucyrus wrecking crane, c. i. f. Colon or Ancon: The Bucyrus Co., South Milwaukee, Wis., $14,250; Industrial Works, Bay City, Mich., $13,900; Manning, Maxwell & Moore, 85 Liberty St., New York, $14,030.

LUMBER.—Panama.—Bids were received as follows on Jan. 28, by the Isthmian Canal Commission, for furnishing 607,050 ft. B. M., of long yeaf yellow pine lumber: A. S. Bacon & Sons, Savannah, Ga., $18,561; Chicago Lumber & Coal Co., St. Louis, $14,404.31; G. Ellas & Son, Buffalo, N. Y., $14,437; J. K. Joice, Chicago, $16,147; C. I. Millard, St. Louis, $14,444; Charles Nelson Co., San Francisco, $14,408 (Douglas fir); Salmen Brick & Lumber Co., New Orleans, $15,743; Robinson Lumber Veneer & Box Co., New Orleans, $14,046; Southern Sawmill Co., New Orleans, bid incomplete; W. R. Grace & Co., San Francisco, $13,776 (Douglas fir).

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

	Noted in issue of
2- 5*Insul. cable, New London, Conn.	1-13
2- 5 Light fixtures, Johnson City, Tenn.	2- 3
2- 7 Elec. light plant, Ralston, Okla.	2- 3
2- 8 Equipment, Indian Head, Md.	2- 3
2- 8 Elec. fixtures, New York	1-27
2- 9 Light fixtures, Newton, Kan.	2- 3
2-10 Heating plant, Salem, Ore.	2- 3
2-10 Light fixtures, Eugene, Ore.	1-27
2-10 Light fixtures, Sheridan, Wyo.	1-27
2-15*Equipment, Winnipeg, Man.	12-30
2-15 Elec. light plant, Albemarle, N. C.	2- 3
2-16*Equipment, Poughkeepsie, N. Y.	2- 3
2-17 Elec. light plant, Erie, Kan.	1-27
2-21*Power plant, Tacoma, Wash.	1-27

Bridges.

2- 5 Bridge work, Troy, Ohio	2- 3
2- 5 Bridge work, Cleveland, Ohio	1-20
2- 7 Bridge, Topeka, Kan.	1-27
2- 7 Bridges, Moncy, Miss.	2- 3
2- 8 Trestle, West Point, Miss.	2- 3
2- 8 Bridges, Salinas, Cal.	1-27
2- 8 Bridge work, Oak Harbor, Ohio	1-20
2- 8 Bridge, Bristol, Va.	1-20
2- 9 Bridge bonds, Dayton, Ohio	1-20
2- 9 Bridges, Edina, Mo.	1-27
2-10*Bridge, Reading, Pa.	1-27
2-12 Bridge, Palatka, Fla.	2- 3
2-14 Bridge work, Reading, Pa.	2- 3
2-16 Bridge work, Cleveland, Ohio	1-27
2-23 Bridge, Washington, Pa.	1-27
2-23 Bridges, Montezuma, Iowa	2- 3
2-28*Swing span, Snohomish, Wash.	2- 3
3- 1 Bridge, etc., Vancouver, Wash.	2- 3
3- 7 Raising span, etc., Oxford, N. C.	2- 3
3-14 Bridge, Savannah, Ga.	2- 3

Buildings.

2- 7*Bell tower, Red Bank, N. J.	1-20
2- 7 Quarters, Hot Springs, Ark.	1-13
2-11 School, Clay City, Ind.	2- 3
2-15 Post-office, Emporia, Kan.	1-13
2-16 Refrig. mach., Ft. Bayard, N. Mex. (Mfg. Pl.)	1- 6
2-16 Cottages, Ward's Island, N. Y.	2- 3
2-17 Quarters, Boise, Idaho	1-27
2-18*Post-office, Henderson, N. C.	1-20
2-18*Laundry, etc., Louisville, Ky.	1-20
2-19 Quarters, Bremerton, Wash.	1-13
2-21*Post-office, Pawtucket, R. I.	1-20
2-21 Laundry, Ft. Logan, Colo. (Mfg. Pl.)	2- 3
2-22 Building, Manhattan, Kan.	1-27
2-23 Prison, Stillwater, Minn.	2- 3
2-24 Post-office, Rock Island, Ill.	12-30
2-25*Post-office, Goldsboro, N. C.	1-27
2-26*Store house, Ft. Wood, N. Y.	2- 3
3- 1*Barracks, Ft. Douglas, Utah	2- 3
3- 1 Post-office, Hot Springs, Ark.	1- 6
3- 2 Post-office, Meridian, Miss.	1-20
3- 3*Post-office, Lynchburg, Va.	1-27
3- 4 Post-office, Lead, S. Dak.	1-27
3- 9 Post-office, Athens, Ga.	1-27
3-10 Painting, etc., Duluth, Minn.	2- 3
3-14*Post-office, Frankfort, Ky.	2- 3
3-15*Post-office, Denver, Colo.	1-27
3-16 Post-office, Danville, Va.	2- 3
3-22*Post-office, Fremont, Neb.	2- 3
3-24 Post-office, Sacramento, Cal.	2- 3
3-30*Court-house, Butte, Mont.	2- 3

Water-Works.

2- 4 Aqueduct, Salt Lake City, Utah	1-27
2- 5 Irrigation bonds, Delta, Colo.	1-27
2- 7 Pipe, Sacramento, Cal.	2- 3
2- 8 C.-i. pipe, Detroit, Mich.	2- 3
2- 9 W.-wks. supplies, Elyria, Ohio	2- 3
2- 9 C.-i. pipe, Schenectady, N. Y.	2- 3
2-14 Lining reservoirs, Fort Mackenzie, Wyo	1-27
2-15 Water-works, Midland, Tex.	1- 6
2-15*Sluicegates, New York	2- 3
2-17*Pumping station, Burlington, Iowa	1-27
2-17*Pumping engines, Poughkeepsie, N. Y.	1-27
2-17 Main extens., Ft. Wayne, Mich.	2- 3
2-18 W.-Wks., Hebron, Neb.	2- 3
2-19 Pump house, Fort Robinson	2- 3
2-21 Dam, etc., Colorado Springs, Colo.	2- 3
2-21 W.-Wks., Merkel, Tex.	2- 3
2-23*Water main, Elizabeth, N. J.	2- 3
2-26 Well, Haswell, Colo.	2- 3
2-26 Well, Cortez, Colo.	2- 3
2-28 Water-works, Milford, Iowa	2- 3
2-28 Dam, etc., Dallas, Tex.	2- 3

Sewers.

2- 4 Sewers, Salt Lake City, Utah	1-27
2- 7 Sewers, Louisville, Ohio	1-20
2- 7 Sewers, Houston, Tex.	2- 3
2- 7 Sewer, Wellington, Kan.	2 -3
2- 7 Sewer, Marquette, Mich.	2- 3
2- 8 Sewers, Toronto, Ont.	2- 3
2- 8 Sewer system, Perry, Fla.	2- 3
2- 8 Sewer, etc., Canby, Minn.	1-27
2- 9*Sewers, Baltimore, Md.	1-13
2-11 Sewer, St. Louis, Mo.	1-13
2-11 Sewers, St. Louis, Mo.	1-27
2-11 Sewer, Cincinnati, Ohio	2- 3
2-12 Contact beds, Hudson, N. Y.	2- 3
2-14 Sewage pump, Sacramento, Cal.	2- 3
2-14 Sewer, Washington, N. J.	1-27
2-15*Sewer outlet, etc., Toronto, Ont.	12-23
2-15*Sewer addition, Medina, N. Y.	2- 3
2-16*Sewer system, Lawton, Okla.	12-30
2-16*Sewers, Boone, Iowa	2- 3
2-18 Sewers, Hebron, Neb	1-27
2-19 Drain, Charleston, S. C.	1-27
3- 3 Sewage pump station, El Paso, Tex.	2- 3

Streets and Roads.

2- 3 Asphalt blocks, Wash., D. C.	2- 3
2- 5 Roads, etc., Jefferson B'ks, Mo.	1-27
2- 7 Roads, Gibson, N. C.	1-27
2- 7 Paving, Mt. Pleasant, Mich.	1-27
2- 7 Road, St. Paul, Minn.	1-20
2- 7 Macadam, Kentland, Ind.	1-20
2- 7 Paving, Peoria, Ill.	2- 3
2- 7 Paving, etc., Cherryvale, Kan.	2- 3
2- 7 Paving, Kirksville, Mo.	2- 3
2- 8 Paving, etc., Norfolk, Va.	1-20
2- 8 Roads, Monticello, Ind.	1-20
2- 9 Gravel road, La Fayette, Ind.	1-27
2- 9 Paving and supplies, New York	1-27
2-11 Street impvt., Cincinnati, Ohio	1-20
2-11 Asphalt, Cincinnati, Ohio	2- 3
2-11 Paving, Oconomowoc, Wis.	2- 3
2-14 Sidewalks, New York	2- 3
2-14 Road, Toms River, N. J.	2- 3
2-14 Paving, Atlantic, Iowa	2- 3
2-14 Road, San Mateo, Cal.	2- 3
2-14 Grading, Los Angeles, Cal.	2- 3
2-14*State roads, Albany, N. Y.	1-27
2-15 Paving, East St. Louis, Ill.	2- 3
2-16*State roads, Albany, N. Y.	1-27
2-17 Road, Towson, Md.	2- 3
2-18*State roads, Albany, N. Y.	1-27
2-21 Paving, Burlington, Iowa	2- 3
3- 1 Driveways, etc., Moline, Ill.	1-13
3- 7 Roads, Oxford, N. C.	2- 3
3-15 Roads, Gordon, Ala.	1-13

Miscellaneous.

2- 5 Ditch, Smartville, Cal.	1-13
2- 7*Valve chambers, etc., Panama	1-13
2- 7 Ditch, Davenport, Iowa	2- 3
2- 8 Lifeboats, New York	2- 3
2- 8 Street sprinkling, Pasadena, Cal. (Garbage)	2- 3
2- 8 Snow removal (garbage), New York	1-27
2- 9 Ditches, Madison, Minn.	1-27
2- 9 Levee, Woodson, Ark	1-27
2- 9 Cement, brick, stone, etc., Baltimore, Md.	2- 3
2-10 Rifle range, Blauvelt, N. Y.	1-27
2-10 Light vessel, Wash., D. C.	1-27
2-12 Ditch, Marion, Ind.	2- 3
2-14 Canal, Oklahoma City, Okla.	1-27
2-15 Coal handling plant, N. Chicago, Ill	1-27
2-16 Barge canal, Albany, N. Y.	1-27
2-16 Ditch, Anoka, Minn.	2- 3
2-19 Drain, Charleston, S. C.	2- 3
2-21*Pier improvement, Albany, N. Y.	2- 3
2-21*Earth work, Colo. Springs, Colo.	1-27
2-23 Dredging, excav., Chicago, Ill.	2- 3
2-23 Ditches, Grand Falls, Tex.	2- 3
2-24 Pile, crib walls, Wheeling, W.Va.	2- 3
2-28*Incinerating plant (garbage), Lynchburg, Va.	1-27
2-28 Fence, gates, Winnipeg, Man.	1-27
3- 5*Iron, steel, Dallas, Tex.	2- 3
3- 5 Piers, Charleston, S. C.	2- 3
3- 7 Ditches, Eldora, Iowa	1-27
3-10 Ditch, Warrensburg, Mo.	2- 3
4- 1 Torpedo boats, Wash., D. C.	2- 3
4-30 Ditch, Olivia, Minn.	12-23

Examinations.

2-16 Computer, Philippines	1-20
2-16 Hydraulic engr., Wash., D. C.	1-20
2-16 Topographic aid, Wash., D. C.	1-20
2-16 Asst. geologist, Wash., D. C.	1-20
2-21 Rodman, New York	1-20
2-26 Topographic Draftsman, Albany	2- 3
2-26 Franchise Examiner, Albany	2- 3
2-26 Junior Ry. Engr., Albany	2- 3
2-28 Transitman, New York	1-20
3- 3 Junior chemist, Wash., D. C.	1-27
3- 9 Topographic draftsmen, Wash., D. C	1-27

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 229 Broadway, New York.

Bids close.	Work.	See issue.
2- 5*Insulated cable, New London, Conn.	(S)	1-13
2-15 Coal-handling plant, N. Chicago, Ill	(S)	1-27
2-15*Paving, Norfolk, Va.		2- 3
2-16 Sewers, East St. Louis, Ill.		2- 3
2-19 Drain, Charleston, S. C.	(S)	1-27
2-19 Quarters, Bremerton, Wash.	(S.)	1-13
2-21*Power plant, Tacoma, Wash.	(P. & S.)	1-27
2-21 Laundry, Ft. Logan, Colo.	(S.)	2- 3
3- 5 Piers, Charleston, S. C.	(S.)	2- 3
3-18 Post-office, Rome, Ga.		2- 3

DUMP CARS.—Panama.—Bids were received as follows on Jan. 25, by the Isthmian Canal Commission, Washington, for 100 all-metal dump cars, 12 cu. yds. capacity. These cars are to be for use on 5-ft. gage track, with a maximum degree of curvature of 20 degrees; body, 19 ft. long, 9 ft. wide, 1 ft. 10½ ins. high; height of body above rail, not over 7 ft. 8 ins.; wheel base, 17 ft. 9 ins.; truck base, 5 ft. 4 ins.; clear opening between door and car body when dumped, not less than 4 ft. 8 ins. Cars to be arranged to dump either side: American Car & Foundry Co., New York, $90,000, 190 working days; Wm. J. Oliver Mfg. Co., Knoxville, Tenn., $105,000, $107,300, 120 days; Standard Steel Car Co., Pittsburg, $107,500, shipment July 1; Western Wheeled Scraper Co., Aurora, Ill., $108,000, 150 days. Time of delivery is an important feature in the contract.

EXAMINATIONS.

EXAMINER, ENGINEER, DRAFTSMAN.—Albany, N. Y.—Open competitive examinations for the State and county service will be held in various cities throughout the State on Feb. 26, for the positions named below. Applications should be filed before noon, Feb. 19. Competitors must be 21 years old, citizens, and residents of New York State.

Franchise Examiner, Public Service Commission, First District, $2,401 to $3,600 a year. The position requires graduate training in political science (including constitutional law) or ts equivalent, and legal training including admission to practice in the courts of this State and an experience of ten years in the active practice of law. Preference will be given to applicants showing a broad, general knowledge of public law, with especial reference to the rights and duties of public service corporations. Candidates may be summoned for an interview with the examiners, but they will not be required to appear at any place for written examination, but will be rated on their education, training, professional records, personal qualifications, and submitted papers, including published writings. Applications and all submited papers must be in hands of the Civil Service Commission not later than Feb. 26.

Junior Railway Engineer, Public Service Commission, First District, salary $1,201 to $1,800 a year. The duties are to inspect the power houses and equipment of subway, elevated and street railways, and of electric companies in New York City. Candidates must be graduate electrical or mechanical engineers and have had at least one year's practical mechanical or electrical experience with railroad, street railroad or electric companies.

Topographic Draftsman, Kings County Service, $900 to $1,500 a year. Open to residents of Kings County only. One appointment is expected in the office of the Commissioner of Record, Kings County, at $1,200. Candiadtes must submit with their applications, samples of their work, duly authenticated as the individual work of the applicant. The samples should include specimens of topographic drawing, lettering and nubmering. Candidates will not be required to appear at any place for examination, but they will be rated on their education, special training, experience and personal qualifications as shown by their sworn statements and by the answers to inquiries made by the Commission of their former employers and other acquainted with their qualifications and upon the samples of their work submitted.

INDUSTRIAL NOTES.

THE ATLANTIC EQUIPMENT CO. has opened an office in Pittsburg, Pa., at 2101 Beaver Ave., which will be in charge of H. Kleinhans as Manager.

SCHALKENBACH & BUDKE, manufacturers of skylights, of Jersey City, N. J., announce that they are erecting skylights on the additions to the buildings of the Consolidated Safety Pin Co., at Bloomfield, N. J.

CHARLES T. MAIN, engineer, of Boston, Mass., announces that he has been obliged by the growth of business to remove from 201 Devonshire St. to more commodious offices at 817-833 Boston Safe Deposit & Trust Co. Bldg.

LEWIS D. THORPE desires to announce that he will continue the consulting engineering business formerly conducted by Freeman C. Coffin and Lewis D. Thorpe at 46 Cornhill, Boston, now removed to the Boston Safe Deposit & Trust Co. Bldg., Boston, Mass.

THE CONCRETE BUREAU (registered) has been established in the Old South Bldg., Boston, Mass., for the practice of concrete engineering, design and supervision, and for the purpose of making the advantages of concrete construction better known in New England. Rolf R. Newman is Engineer and Manager.

THE SAN FRANCISCO OFFICE of the Power Specialty Co., formerly in the Kohl Bldg., has been transferred to larger quarters in the Balboa Bldg. on Market St., adjoining the new Palace Hotel, and has been placed in charge of Chas. L. Froding, formerly manager of the San Francisco office of the Stirling Boiler Co.

THE JOINT CONVENTION of the Southern Supply & Machinery Dealers Association and the American Supply & Machinery Manufacturers Association will be held in Jacksonville, Fla., April 5th, 6th and 7th, with headquarters at the Seminole Hotel. Alvin M. Smith, Smith Courtney Co., Richmond, Va., is Secretary of the Southern Association.

THE INTERSTATE EQUIPMENT & ENGINEERING CO. announces the removal of its offices to 1775 Old Colony Bldg., Chicago. It has the exclusive agency in territory adjacent to Chicago for the Chain-Belt concrete mixers, Lambert hoisting engines, Porter locomotives and other contractors' equipment. At its yards it carries a full line

of second-hand and rebuilt contractors' machinery, and has ample facilities for the storage of equipment. This company was organized recently. Mr. F. B. Wright, President, was formerly connected with the sales department of the Contractors' Supply & Equipment Co.; and Mr. C. D. Smith, Secretary and Treasurer, was for some years secretary of that company. Mr. W. B. Louer is Vice-President of the new company.

MR. E. J. HAYDEN, for nine years New York representative of the Lambert Hoisting Engine Co., has resigned and is now doing business under the name of Hayden Machinery & Supply Co. with offices at 30 Church St., New York. This concern will handle a general line of contractors' tools and machinery. They desire catalogs from manufacturers in this line of business.

ANNOUNCEMENT HAS BEEN MADE of another addition to the list of conventions that will be held in Chicago in conjunction with the Third Annual Cement Show, Feb. 18-26. The latest organization to make this decision is the Interstate Cement Tile Manufacturers Association, which embraces all the leading cement tile makers. The President of the Association is Mr. L. L. Bingham, of Estherville, Ia., and the Secretary is Mr. Chas. E. Sims, of Worthington, Minn. The convention dates are Feb. 22 and 23.

THE COVINGTON MACHINE CO., of Covington, Va., manufacturers of combination punches and shears, report the sale of the triple combination machine to the Maryland Steel Co. at Sparrows Point, Md. In order to handle the eastern business, they have made arrangements with the Wiener Machinery Co., New York City, to manage their Eastern Sales Office, which is located in the Hudson Terminal Bldg., Room No. 379. They will carry a large stock of their machines in Jersey City, in order to make prompt deliveries.

THE PIERCE PHOSPHATE CO is installing a 1,150-HP. Westinghouse gas-engine-driven alternator set in its new generating station at Pierce, Fla., to serve as an auxiliary to the old power plant containing a number of Diesel oil engines. The new equipment consists of a 1,150-HP. Westinghouse single-crank horizontal gas engine, with cylinder 34 by 42 inches, D. C. to a 850-kilovolt-ampere Westinghouse A. C. generator, supplying three-phase power at 2,300 volts for hydraulic mining work. The engine is furnished with fuel gas from double-zone producers, having a calorific value of 110 B. T. U. per cu. ft. The new addition to the power plant equipment represents an expenditure of about $75,000, and will operate in parallel with the old station, built some six years ago, which contains six 200-HP. Diesel gas engines driving 150-KW. alternators. The installation of the additional equipment is being made under the direction of A. H. Nickerson, Mechanical Engineer for the Pierce Phosphate Co., Pebbledale, Fla.

THE GOOD ROADS MACHINERY CO., Inc., announces that it has recently concluded arrangements whereby it will have the exclusive sale of the entire output of the road and street making machinery, contractors' tools and supplies manufactured by the Climax Road Machine Co., Marathon, N. Y.; the Monarch Road Roller Co., Groton, N. Y., and the Indiana Road Machine Co., Fort Wayne, Ind., in addition to that of the American Road Machine Co., of Kennett Square, Pa. Each of these various concerns is widely known as manufacturers of road making and contractors' machinery. The Good Roads Co. has its main office at Kennett Square, Pa., and branch offices at the following points: Marathon, N. Y.; Boston, Mass., 36 South Market St.; New York, N. Y., 114 Liberty St.; Groton, N. Y.; Albany, N. Y.; Pittsburg, Pa., 1632-1633 Oliver Bldg.; Charlotte, N. C.; Atlanta, Ga.; Memphis, Tenn.; Birmingham, Ala.; Fort Wayne, Ind.; Dallas, Texas; Los Angeles, Cal.; San Francisco, Cal.; Portland, Ore.; Spokane, Wash.; Seattle, Wash.; Minneapolis, Minn.

THE UNITED STATES STEEL CORPORATION has authorized the expenditure of $2,450,000 by one of its subsidiaries, the Universal Portland Cement Co., in the construction of Cement Plant No. 6 at Buffington, Ind., to have a capacity of 2,000,000 barrels of Universal Portland cement per annum. This plant will be located alongside of Plants Nos. 3 and 4 of the Universal Portland Cement Co., which have been in operation for some years. It will be so designed as to be easily extended to its ultimate capacity of 4,000,000 barrels per annum without interference with operations. This plant will be operated entirely by electric motors, the power being transmitted five miles from the power station at Gary, Ind., containing gas engines utilizing waste gases from the blast furnaces. With the extension of Cement Plant No. 5 at Universal, Pa. (near Pittsburg), now being completed, increasing the capacity of that plant from 1,500,000 to 3,500,000 barrels per annum, this additional plant at Buffington, when in operation at the beginning of 1911, will give the Universal Portland Cement Co. a total output of 10,000,000 barrels per annum of Universal Portland cement, all manufactured from blast furnace slag and limestone.

ACCORDING TO PRESS REPORTS a combination of interests in the asbestos trade in the United States and Canada to exploit their product and enlarge the market has been brought about by the organization of the International Asbestos Association, with representation of concerns controlling between 80 and 90% of the product in this country and Canada. The plan for an international trade organization was formuated at a recent meeting of the leading producers and users of asbestos. T. F. Manville, of the H. W. Johns-Manville Co., is President of the new organization; R. Y. Mattison, Jr., Vice-President, and R. P. Doucet, Secretary. Included in the association are the Amalgamated Asbestos Corporation, Limited, Keasbey & Mattison Co., Philip Carey Mfg. Co., Asbestos Protected Metal Co., Franklin Mfg. Co., H. W. Johns-Manville Co, Sall Mount Asbestos Mfg. Co., Ling Asbestos Mfg. Co., and the United States Asbestos Co. The aggregate capitalization of the concerns who are so far represented is more than $40,000,000. The Amalgamated Asbestos Corporation, Limited, is a recently organized combination of the principal producers of Quebec and controls 80% of the output of the Black Lake and Thetford districts. One of the chief aims of the association will be the exploitation of the use of asbestos in fireproof construction.

THE INITIAL PLANT of the Lackawanna Bridge Co., of Buffalo, was completed Dec. 1. Most of the machinery has been installed and operations were commenced in a portion of the plant on Dec. 15, and it is now in full operation. The site, which is adjacent to the Lackawanna Steel Co.'s works and those of the New York State Steel Co., contains 23 acres and is located on Abby St. and the South Buffalo Ry., a switching and terminal road controlled by the Lackawanna Steel Co., and which connects directly with all of the railways entering Buffalo from the east, south and west. The new plant was projected and built by the Worden-Allen Co. interests in Milwaukee (of which Mr. B. L. Worden is President), who wished to establish a fabricating and distributing plant for the eastern markets and regarded Buffalo as an advantageous point for its location. The present main building just completed is 610 ft. in length by 200 and 250 ft. in width, of steel and brick construction with tile roof and is divided into sections (without partitions), comprising a machine shop, template shop, turntable shop, construction department and lay-out shop. All machinery is electrically operated by direct connected motors; the company generating its own power. The crane equipment, which is operated the full length of the building on two main runways, and one side bay and one yard runway, consists of 6 Pawling & Harnischfeger traveling cranes, one of 20 tons, two of 15 tons, one of 10 tons, and two of 5 tons capacity, including the 5-ton crane for the yard runway, and also two wall jib cranes and two small Gantry cranes in the machine shop. There are 12 reamer gantrys of the Worden-Allen Co.'s make and 16 radial drills of Pawling & Harnischfeger make. The punch and shear equipment consists of 16 punches, two angle shears; one 8 × 8 × 1¼ ins. and one 6 × 6 × 1 in. and two plate shears, one 60 × 1¼ ins. and one 48 × 1 in. There are also two rotary planers; one 20-ft. plate planer and two bar-bending and straightening machines. The 18 compressed air riveting machines with which the plant is equipped (12 of 70-ton and 6 of 50-ton capacity) were furnished by the Hanna Engineering Works, Chicago. The equipment also includes one Lane steam hammer with 1,500-lb. head; one Bradley hammer, lathes, shapers, drill presses, rivet-making machinery, oil furnaces, etc. The power plant comprises a 500-HP. Allis-Chalmers Corliss type engine; a Bullock generator, direct connected, carrying 240 volts; a Nordberg 2-stage air compressor, cross compound 12 × 20 × 36 ins., 110 pounds air pressure at receivers; two boilers, and all the accessories of an up-to-date power plant. The company will carry at its plant a stock of plates and shapes of about 5,000 tons. This is a new feature for the Buffalo district. The carrying of warehouse stock of structural material, same having been heretofore supplied from Pittsburg and Cleveland. W. A. Hazard is manager of the plant and A. Freiburger, General Superintendent. The officers of the company are. B. L. Worden, President; J. P. Nicholas, Vice-President; F. H. Bottum, Assistant Secretary. Jason Page is Contracting Engineer, with offices at 50 Church St., New York. The general offices of the company are at 626-628 Fidelity Bldg., Buffalo, N. Y.

TRADE PUBLICATIONS.

WIRE ROPE.—Broderick & Bascom Rope Co., St. Louis Mo. Paper; two pamphlets; 7 × 9¾ ins.; pp. 10; illustrated.

These pamphlets contain miscellaneous information as to "yellow strand" rope and its use for various purposes.

MALLET ARTICULATED LOCOMOTIVES.—American Locomotive Co., New York, N. Y. Paper; 8 ×.10¾ ins.; pp. 12; illustrated.

This pamphlet briefly outlines the special features and advantages of the Mallet articulated duplex compound type of locomotive which is now being used extensively in this country for heavy train loads on heavy grades. It gives illustrations and dimensions of a number of these engines built by the above company for American railways and for France, South Africa and South America. One of these last is a tank engine of the 0-6-6-0 class, weighing 63 tons. The largest engines are of the 0-8-8-0 class for the Erie Ry. and the Delaware & Hudson Ry., weighing 205 tons and 220 tons, respectively.

BUILDING CONSTRUCTION.—James Stewart & Co., New York. 8 × 11 ins; boards; pp. 204; illustrated.

The James Stewart Co. was founded in Canada in 1845, established in St. Louis in 1865 and since then has established offices in New York, Chicago, Pittsburg, New Orleans, Denver and San Francisco. It is a building contractor on a large scale, as this book indicates. In its pages will be found illustrations and descriptions of office buildings, hotels, public buildings, industrial works, power development, heavy masonry construction, wharves, docks and grain elevators executed in this country and abroad by the company. The record of work is admirably done, the typography is excellent and the engraving all that could be desired. As a record of 60 years of accomplishment, the Stewart Company would not ask for a better exposition.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 46.

COURT HOUSE.

Butte, Mont.

Sealed proposals will be received by the Board of County Commissioners of Silver Bow County, Montana, for the erection of a New County Court House at Butte, Montana.

Proposals will be received up to 2 o'clock P. M. of March 30, 1910, at the office of said Board of County Commissioners at the Court House at Butte, Montana.

The proposals shall be delivered by the bidders in person or by agent at the time and place above stated.

Plans and specifications may be seen at the office of said Board of County Commissioners, or at the office of the architects, Link & Haire, State Savings Bank Building, Butte, Montana.

A certified check for five (5) per cent. of the contract price shall accompany each bid; this check shall be made payable to the Chairman of the Board of County Commissioners, and shall be an evidence of good faith on the part of the person or persons making said bid. Said check shall be forfeited to the County of Silver Bow should the successful bidder, after being awarded the contract, refuse or fail to enter into written contract and give satisfactory bonds.

Surety Company Bonds from a Company duly authorized to do business in the State of Montana will be required of the successful bidder for an amount equal to one-third (⅓) of contract price.

Proposals shall be made on the blank forms furnished by the Board of County Commissioners or their Architects, with all the items filled out.

The right is reserved to reject any and all bids.

See other advertisements for heating, plumbing, ventilating and electric elevators.

By order of the Board of County Commissioners.

(Attest) J. H. CRONIN, Chairman.
M. KERR BEADLE, County Clerk.

Dated at Butte, Montana, Jan. 22, 1910.

PAVING.

CHANGE OF DATE

OFFICE OF BOARD OF CONTROL.
Norfolk, Va., Jan. 10, 1910.

Sealed proposals will be received by the Board of Control at its office in the City of Norfolk, Va., until 12 o'clock noon on the fifteenth day of February, 1910, for regulating and repaving with some smooth material, parts of Granby and Chapel Streets in said City.

Bids must be made for each street separately.

Specifications with all other information may be obtained on application to the City Engineer, Norfolk, Va.

Certified checks for ten per cent. of the amount bid, must accompany each separate proposal, under the conditions set forth in "Instructions to Bidders."

The right to reject any or all bids is reserved by the Board of Control.

THE BOARD OF CONTROL.
Norfolk, Va.

W. T. BROOKE,
City Engineer.

POWER HOUSE EQUIPMENT.

Poughkeepsie, N. Y.

Sealed proposals for the Power House Equipment, Conduits and Piping at Hudson River State Hospital, Poughkeepsie, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., until 3 o'clock, P. M., on Wednesday, February 16, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of $4,000, and the contractor to whom the award is made will be required to furnish surety company's bond in the sum of $40,000 within thirty days after official notice of award of contract and in accordance with the terms of specification No. 1314. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Hudson River State Hospital, Poughkeepsie, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin H. Ware, Albany, N. Y.

NOTE: Only bids for the complete work will be considered.

T. E. McGARR, Secretary,
State Commission in Lunacy

Dated, Albany, N. Y., Jan. 26, 1910.

BRIDGE WORK.

THE SANITARY DISTRICT OF CHICAGO.

TO CONTRACTORS.

SEALED PROPOSALS ADDRESSED TO THE BOARD OF TRUSTEES OF THE SANITARY DISTRICT OF CHICAGO AND ENDORSED

"Proposals for Metal Work for Sheridan Road Bridge and Wilmette Pumping Station," will be received by the Clerk of the said Sanitary District at the offices of the said District, on the fifteenth floor of the American Trust Building, Chicago, Illinois, until 12 M. Standard Time, on Wednesday, Feb. 16, 1910, and will be publicly opened by the Board of Trustees at a meeting to be held on that day, or the first meeting thereafter.

The work for which said tenders are invited consists of the furnishing, fabrication and erection of metal work for Sheridan Road Bridge and Wilmette Pumping Station, for the North Shore Channel of the Sanitary District of Chicago, in the village of Wilmette, County of Cook, State of Illinois.

The said work is to be performed in accordance with plans, specifications and contract furnished by The Sanitary District of Chicago, which plans, specifications and contract may be obtained upon application at the said office of the said District.

All bids must be upon blank forms of proposal furnished by the Sanitary District, and shall be made in accordance with and to conform with all the terms and conditions stated thereon.

The said Board of Trustees reserves the right to reject any and all bids.

THE SANITARY DISTRICT OF CHICAGO,
By Robert R. McCormick,
President of its Board of Trustees.

Attest:
I. J. Bryan, Clerk.

Chicago, February 3, 1910.

FORT MONROE, VA.—February 1st, 1910.—Sealed proposals, in triplicate, will be received until 10.00 A. M., March 3, 1910, for wire door and window screens for eight new buildings, at Fort Monroe, Va. Bidders must state name of manufacturers supplying them with material and submit corner sample of screen with bid. Information on application. Bids should be plainly marked as such on envelope or outside wrapper. The United States reserves the right to accept or reject any or all bids or any part thereof. Address ERNEST R. TILTON, Captain and Q. M., U. S. A., Constg. Q. M.

Situations Open

WANTED—Experienced structural steel detailer for mill-building and beam and column work. Apply in person, or address, giving experience, references, age and salary expected, THE HONOLULU IRON WORKS COMPANY, 11 Broadway, New York. 5-1t

WANTED—Good detailers and checkers on plate work and gas works detail. Write, stating qualifications and salary desired. RITER-CONLEY MFG. CO., Gas and Plate Department, Pittsburgh. 5-2t

Miscellaneous Wants

OPPORTUNITY for a civil engineer to invest $2,000 capital in partnership with a village engineer; only engineers familiar with inside computation work and outside field work will be considered, and best of references will be required. Address "K. B. 5," Engineering News, New York. 5-1t

FOR SALE

FOR SALE.

No. 2 Thew Shovel

Revolving type in A1 condition.

F. O. JOHNSON,
5-1t 70 Kilby St., Boston, Mass.

FOR SALE.

1—Aveling & Porter 15 ton Road Roller.
1—50 KW. Direct Connected Set, also 75.
1—New Era Elevating Grader.

F. L. HALL,
5-1t McGraw Bldg., Detroit, Mich.